



REC /ED
FEB 21 2003

FIG. 1A TECH CENTER 1600/2300

APPROVED BY DRAFTSMAN	O.G. FIG.	SUBCLASS
	CLASS	

CTG CTC GCC GCC GTG GAA GAA ACG CTA ATG GAC TCC ACT ACA GCG ACT Leu Leu Ala Ala Val Glu Glu Thr Leu Met Asp Ser Thr Thr Ala Thr 1 5 10 15	48
GCT GAG CTG GGC TGG ATG GTG CAT CCT CCA TCA GGG TGG GAA GAG GTG Ala Glu Leu Gly Trp Met Val His Pro Pro Ser Gly Trp Glu Glu Val 20 25 30	96
AGT GGC TAC GAT GAG AAC ATG AAC ACG ATC CGC ACG TAC CAG GTG TGC Ser Gly Tyr Asp Glu Asn Met Asn Thr Ile Arg Thr Tyr Gln Val Cys 35 40 45	144
AAC GTG TTT GAG TCA AGC CAG AAC AAC TGG CTA CGG ACC AAG TTT ATC Asn Val Phe Glu Ser Ser Gln Asn Asn Trp Leu Arg Thr Lys Phe Ile 50 55 60	192
CGG CGC CGT GGG GCC CAC CGC ATC CAC GTG GAG ATG AAG TTT TCG GTG Arg Arg Arg Gly Ala His Arg Ile His Val Glu Met Lys Phe Ser Val 65 70 75 80	240
CGT GAC TGC AGC AGC ATC CCC AGC GTG CCT GGC TCC TGC AAG GAG ACC Arg Asp Cys Ser Ser Ile Pro Ser Val Pro Gly Ser Cys Lys Glu Thr 85 90 95	288
TTC AAC CTC TAT TAC TAT GAG GCT GAC TTT GAC TCG GCC ACC AAG ACC Phe Asn Leu Tyr Tyr Tyr Glu Ala Asp Phe Asp Ser Ala Thr Lys Thr 100 105 110	336
TTC CCC AAC TGG ATG GAG AAT CCA TGG GTG AAG GTG GAT ACC ATT GCA Phe Pro Asn Trp Met Glu Asn Pro Trp Val Lys Val Asp Thr Ile Ala 115 120 125	384
GCC GAC GAG AGC TTC TCC CAG GTG GAC CTG GGT GGC CGC GTC ATG AAA Ala Asp Glu Ser Phe Ser Gln Val Asp Leu Gly Gly Arg Val Met Lys 130 135 140	432
ATC AAC ACC GAG GTG CGG AGC TTC GGA CCT GTG TCC CGC AGC GGC TTC Ile Asn Thr Glu Val Arg Ser Phe Gly Pro Val Ser Arg Ser Gly Phe 145 150 155 160	480
TAC CTG GCC TTC CAG GAC TAT GGC GGC TGC ATG TCC CTC ATC GCC GTG Tyr Leu Ala Phe Gln Asp Tyr Gly Gly Cys Met Ser Leu Ile Ala Val 165 170 175	528
CGT GTC TTC TAC CGC AAG TGC CCC CGC ATC ATC CAG AAT GGC GCC ATC Arg Val Phe Tyr Arg Lys Cys Pro Arg Ile Ile Gln Asn Gly Ala Ile 180 185 190	576



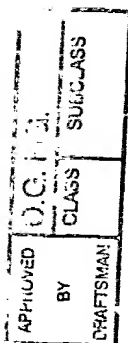
ECEIVED

FEB 21 2003

FIG. 1B

TECH CENTER 1600/2900

TTC	CAG	GAA	ACC	CTG	TCG	GGG	GCT	GAG	AGC	ACA	TCG	CTG	GTG	GCT	GCC	624
Phe	Gln	Glu	Thr	Leu	Ser	Gly	Ala	Glu	Ser	Thr	Ser	Leu	Val	Ala	Ala	
		195					200					205				
CGG	GGC	AGC	TGC	ATC	GCC	AAT	GCG	GAA	GAG	GTG	GAT	GTA	CCC	ATC	AAG	672
Arg	Gly	Ser	Cys	Ile	Ala	Asn	Ala	Glu	Glu	Val	Asp	Val	Pro	Ile	Lys	
	210					215					220					
CTC	TAC	TGT	AAC	GGG	GAC	GGC	GAG	TGG	CTG	GTG	CCC	ATC	GGG	CGC	TGC	720
Leu	Tyr	Cys	Asn	Gly	Asp	Gly	Glu	Trp	Leu	Val	Pro	Ile	Gly	Arg	Cys	
	225				230					235					240	
ATG	TGC	AAA	GCA	GGC	TTC	GAG	GCC	GTT	GAG	AAT	GGC	ACC	GTC	TGC	CGA	768
Met	Cys	Lys	Ala	Gly	Phe	Glu	Ala	Val	Glu	Asn	Gly	Thr	Val	Cys	Arg	
				245					250					255		
GGT	TGT	CCA	TCT	GGG	ACT	TTC	AAG	GCC	AAC	CAA	GGG	GAT	GAG	GCC	TGT	816
Gly	Cys	Pro	Ser	Gly	Thr	Phe	Lys	Ala	Asn	Gln	Gly	Asp	Glu	Ala	Cys	
			260					265					270			
ACC	CAC	TGT	CCC	ATC	AAC	AGC	CGG	ACC	ACT	TCT	GAA	GGG	GCC	ACC	AAC	864
Thr	His	Cys	Pro	Ile	Asn	Ser	Arg	Thr	Thr	Ser	Glu	Gly	Ala	Thr	Asn	
		275					280					285				
TGT	GTC	TGC	CGC	AAT	GGC	TAC	TAC	AGA	GCA	GAC	CTG	GAC	CCC	CTG	GAC	912
Cys	Val	Cys	Arg	Asn	Gly	Tyr	Tyr	Arg	Ala	Asp	Leu	Asp	Pro	Leu	Asp	
	290					295					300					
ATG	CCC	TGC	ACA	ACC	ATC	CCC	TCC	GCG	CCC	CAG	GCT	GTG	ATT	TCC	AGT	960
Met	Pro	Cys	Thr	Thr	Ile	Pro	Ser	Ala	Pro	Gln	Ala	Val	Ile	Ser	Ser	
	305				310					315					320	
GTC	AAT	GAG	ACC	TCC	CTC	ATG	CTG	GAG	TGG	ACC	CCT	CCC	CGC	GAC	TCC	1008
Val	Asn	Glu	Thr	Ser	Leu	Met	Leu	Glu	Trp	Thr	Pro	Pro	Arg	Asp	Ser	
				325				330						335		
GGA	GGC	CGA	GAG	GAC	CTC	GTC	TAC	AAC	ATC	ATC	TGC	AAG	AGC	TGT	GGC	1056
Gly	Gly	Arg	Glu	Asp	Leu	Val	Tyr	Asn	Ile	Ile	Cys	Lys	Ser	Cys	Gly	
			340					345					350			
TCG	GGC	CGG	GGT	GCC	TGC	ACC	CGC	TGC	GGG	GAC	AAT	GTA	CAG	TAC	GCA	1104
Ser	Gly	Arg	Gly	Ala	Cys	Thr	Arg	Cys	Gly	Asp	Asn	Val	Gln	Tyr	Ala	
		355					360					365				
CCA	CGC	CAG	CTA	GGC	CTG	ACC	GAG	CCA	CGC	ATT	TAC	ATC	AGT	GAC	CTG	1152
Pro	Arg	Gln	Leu	Gly	Leu	Thr	Glu	Pro	Arg	Ile	Tyr	Ile	Ser	Asp	Leu	
		370				375					380					
CTG	GCC	CAC	ACC	CAG	TAC	ACC	TTC	GAG	ATC	CAG	GCT	GTG	AAC	GGC	GTT	1200
Leu	Ala	His	Thr	Gln	Tyr	Thr	Phe	Glu	Ile	Gln	Ala	Val	Asn	Gly	Val	
	385				390					395					400	





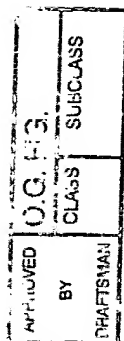
RECEIVED

FEB 21 2003

TECH CENTER 1600/2900

FIG. 1C

ACT GAC CAG AGC CCC TTC TCG CCT CAG TTC GCC TCT GTG AAC ATC ACC	1248
Thr Asp Gln Ser Pro Phe Ser Pro Gln Phe Ala Ser Val Asn Ile Thr	
405 410 415	
ACC AAC CAG GCA GCT CCA TCG GCA GTG TCC ATC ATG CAT CAG GTG AGC	1296
Thr Asn Gln Ala Ala Pro Ser Ala Val Ser Ile Met His Gln Val Ser	
420 425 430	
CGC ACC GTG GAC AGC ATT ACC CTG TCG TGG TCC CAG CCG GAC CAG CCC	1344
Arg Thr Val Asp Ser Ile Thr Leu Ser Trp Ser Gln Pro Asp Gln Pro	
435 440 445	
AAT GGC GTG ATC CTG GAC TAT GAG CTG CAG TAC TAT GAG AAG GAG CTC	1392
Asn Gly Val Ile Leu Asp Tyr Glu Leu Gln Tyr Tyr Glu Lys Glu Leu	
450 455 460	
AGT GAG TAC AAC GCC ACA GCC ATA AAA AGC CCC ACC AAC ACG GTC ACG	1440
Ser Glu Tyr Asn Ala Thr Ala Ile Lys Ser Pro Thr Asn Thr Val Thr	
465 470 475 480	
GGC CTC AAA GCC GGC GCC ATC TAT GTC TTC CAG GTG CGG GCA CGC ACT	1488
Gly Leu Lys Ala Gly Ala Ile Tyr Val Phe Gln Val Arg Ala Arg Thr	
485 490 495	
GTG GCA GGC TAC GGG CGC TAC AGC GGC AAG ATG TAC TTC CAG ACC ATG	1536
Val Ala Gly Tyr Gly Arg Tyr Ser Gly Lys Met Tyr Phe Gln Thr Met	
500 505 510	
ACA GAA GCC GAG TAC CAG ACA AGC ATC CAG GAG AAG TTG CCA CTC ATC	1584
Thr Glu Ala Glu Tyr Gln Thr Ser Ile Gln Glu Lys Leu Pro Leu Ile	
515 520 525	
ATC GGC TCC TCG GCC GCT GGC CTG GTC TTC CTC ATT GCT GTG GTT GTC	1632
Ile Gly Ser Ser Ala Ala Gly Leu Val Phe Leu Ile Ala Val Val Val	
530 535 540	
ATC GCC ATC GTG TGT AAC AGA CGG GGG TTT GAG CGT GCT GAC TCG GAG	1680
Ile Ala Ile Val Cys Asn Arg Arg Gly Phe Glu Arg Ala Asp Ser Glu	
545 550 555 560	
TAC ACG GAC AAG CTG CAA CAC TAC ACC AGT GGC CAC ATA ACC CCA GGC	1728
Tyr Thr Asp Lys Leu Gln His Tyr Thr Ser Gly His Ile Thr Pro Gly	
565 570 575	
ATG AAG ATC TAC ATC GAT CCT TTC ACC TAC GAG GAC CCC AAC GAG GCA	1776
Met Lys Ile Tyr Ile Asp Pro Phe Thr Tyr Glu Asp Pro Asn Glu Ala	
580 585 590	
GTG CGG GAG TTT GCC AAG GAA ATT GAC ATC TCC TGT GTC AAA ATT GAG	1824
Val Arg Glu Phe Ala Lys Glu Ile Asp Ile Ser Cys Val Lys Ile Glu	
595 600 605	





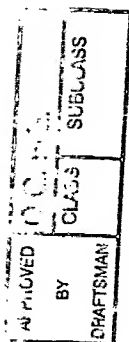
RECEIVED

FEB 21 2003

FIG. 1D

TECH CENTER 1600/2900

CAG GTG ATC GGA GCA GGG GAG TTT GGC GAG GTC TGC AGT GGC CAC CTG	1872
Gln Val Ile Gly Ala Gly Glu Phe Gly Glu Val Cys Ser Gly His Leu	
610 615 620	
AAG CTG CCA GGC AAG AGA GAG ATC TTT GTG GCC ATC AAG ACG CTC AAG	1920
Lys Leu Pro Gly Lys Arg Glu Ile Phe Val Ala Ile Lys Thr Leu Lys	
625 630 635 640	
TCG GGC TAC ACG GAG AAG CAG CGC CGG GAC TTC CTG AGC GAA GCC TCC	1968
Ser Gly Tyr Thr Glu Lys Gln Arg Arg Asp Phe Leu Ser Glu Ala Ser	
645 650 655	
ATC ATG GGC CAG TTC GAC CAT CCC AAC GTC ATC CAC CTG GAG GGT GTC	2016
Ile Met Gly Gln Phe Asp His Pro Asn Val Ile His Leu Glu Gly Val	
660 665 670	
GTG ACC AAG AGC ACA CCT GTG ATG ATC ATC ACC GAG TTC ATG GAG AAT	2064
Val Thr Lys Ser Thr Pro Val Met Ile Ile Thr Glu Phe Met Glu Asn	
675 680 685	
GGC TCC CTG GAC TCC TTT CTC CGG CAA AAC GAT GGG CAG TTC ACA GTC	2112
Gly Ser Leu Asp Ser Phe Leu Arg Gln Asn Asp Gly Gln Phe Thr Val	
690 695 700	
ATC CAG CTG GTG GGC ATG CTT CGG GGC ATC GCA GCT GGC ATG AAG TAC	2160
Ile Gln Leu Val Gly Met Leu Arg Gly Ile Ala Ala Gly Met Lys Tyr	
705 710 715 720	
CTG GCA GAC ATG AAC TAT GTT CAC CGT GAC CTG GCT GCC CGC AAC ATC	2208
Leu Ala Asp Met Asn Tyr Val His Arg Asp Leu Ala Ala Arg Asn Ile	
725 730 735	
CTC GTC AAC AGC AAC CTG GTC TGC AAG GTG TCG GAC TTT GGG CTC TCA	2256
Leu Val Asn Ser Asn Leu Val Cys Lys Val Ser Asp Phe Gly Leu Ser	
740 745 750	
CGC TTT CTA GAG GAC GAT ACC TCA GAC CCC ACC TAC ACC AGT GCC CTG	2304
Arg Phe Leu Glu Asp Asp Thr Ser Asp Pro Thr Tyr Thr Ser Ala Leu	
755 760 765	
GGC GGA AAG TTC CCC ATC CGC TGG ACA GCC CCG GAA GCC ATC CAG TAC	2352
Gly Gly Lys Phe Pro Ile Arg Trp Thr Ala Pro Glu Ala Ile Gln Tyr	
770 775 780	
CGG AAG TTC ACC TCG GCC AGT GAT GTG TGG AGC TAC GGC ATT GTC ATG	2400
Arg Lys Phe Thr Ser Ala Ser Asp Val Trp Ser Tyr Gly Ile Val Met	
785 790 795 800	
TGG GAG GTG ATG TCC TAT GGG GAG CGG CCC TAC TGG GAC ATG ACC AAC	2448
Trp Glu Val Met Ser Tyr Gly Glu Arg Pro Tyr Trp Asp Met Thr Asn	
805 810 815	





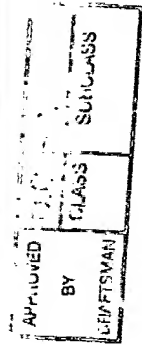
RECEIVED

FEB 21 2003

FIG. 1E

TECH CENTER 1600/2900

CAG GAT GTA ATC AAT GCC ATT GAG CAG GAC TAT CGG CTG CCA CCG CCC	2496
Gln Asp Val Ile Asn Ala Ile Glu Gln Asp Tyr Arg Leu Pro Pro Pro	
20 825 830	
ATG GAC TGC CCG AGC GCC CTG CAC CAA CTC ATG CTG GAC TGT TGG CAG	2544
Met Asp Cys Pro Ser Ala Leu His Gln Leu Met Leu Asp Cys Trp Gln	
835 840 845	
AAG GAC CGC AAC CAC CGG CCC AAG TTC GGC CAA ATT GTC AAC ACG CTA	2592
Lys Asp Arg Asn His Arg Pro Lys Phe Gly Gln Ile Val Asn Thr Leu	
850 855 860	
GAC AAG ATG ATC CGC AAT CCC AAC AGC CTC AAA GCC ATG GCG CCC CTC	2640
Asp Lys Met Ile Arg Asn Pro Asn Ser Leu Lys Ala Met Ala Pro Leu	
865 870 875 880	
TCC TCT GGC ATC AAC CTG CCG CTG CTG GAC CGC ACG ATC CCC GAC TAC	2688
Ser Ser Gly Ile Asn Leu Pro Leu Leu Asp Arg Thr Ile Pro Asp Tyr	
885 890 895	
ACC AGC TTT AAC ACG GTG GAC GAG TGG CTG GAG GCC ATC AAG ATG GGG	2736
Thr Ser Phe Asn Thr Val Asp Glu Trp Leu Glu Ala Ile Lys Met Gly	
900 905 910	
CAG TAC AAG GAG AGC TTC GCC AAT GCC GGC TTC ACC TCC TTT GAC GTC	2784
Gln Tyr Lys Glu Ser Phe Ala Asn Ala Gly Phe Thr Ser Phe Asp Val	
915 920 925	
GTG TCT CAG ATG ATG ATG GAG GAC ATT CTC CGG GTT GGG GTC ACT TTG	2832
Val Ser Gln Met Met Met Glu Asp Ile Leu Arg Val Gly Val Thr Leu	
930 935 940	
GCT GGC CAC CAG AAA AAA ATC CTG AAC AGT ATC CAG GTG ATG CCG GCG	2880
Ala Gly His Gln Lys Lys Ile Leu Asn Ser Ile Gln Val Met Arg Ala	
945 950 955 960	
CAG ATG AAC CAG ATT CAG TCT GTG GAG GTT TGACATTAC CTGCCTCGGC	2930
Gln Met Asn Gln Ile Gln Ser Val Glu Val	
965 970	
TCACCTCTTC CTCCAAGCCC CGCCCCCTCT GC	2962





RECEIVED

FEB 21 2003

TECH CENTER 1600/2900

FIG. 2A

CCA	GCG	TCC	CTG	GCC	GGC	TGC	TAC	TCT	GCA	CCT	CGA	CGG	GCT	CCC	CTC	48
Pro	Ala	Ser	Leu	Ala	Gly	Cys	Tyr	Ser	Ala	Pro	Arg	Arg	Ala	Pro	Leu	
1				5					10					15		
TGG	ACG	TGC	CTT	CTC	CTG	TGC	GCC	GCA	CTC	CGG	ACC	CTC	CTG	GCC	AGC	96
Trp	Thr	Cys	Leu	Leu	Leu	Cys	Ala	Ala	Leu	Arg	Thr	Leu	Leu	Ala	Ser	
			20					25					30			
CCC	AGC	AAC	GAA	GTG	AAT	TTA	TTG	GAT	TCA	CGC	ACT	GTC	ATG	GGG	GAC	144
Pro	Ser	Asn	Glu	Val	Asn	Leu	Leu	Asp	Ser	Arg	Thr	Val	Met	Gly	Asp	
		35					40					45				
CTG	GGA	TGG	ATT	GCT	TTT	CCA	AAA	AAT	GGG	TGG	GAA	GAG	ATT	GGT	GAA	192
Leu	Gly	Trp	Ile	Ala	Phe	Pro	Lys	Asn	Gly	Trp	Glu	Glu	Ile	Gly	Glu	
	50					55					60					
GTG	GAT	GAA	AAT	TAT	GCC	CCT	ATC	CAC	ACA	TAC	CAA	GTA	TGC	AAA	GTG	240
Val	Asp	Glu	Asn	Tyr	Ala	Pro	Ile	His	Thr	Tyr	Gln	Val	Cys	Lys	Val	
	65				70					75					80	
ATG	GAA	CAG	AAT	CAG	AAT	AAC	TGG	CTT	TTG	ACC	AGT	TGG	ATC	TCC	AAT	288
Met	Glu	Gln	Asn	Gln	Asn	Asn	Trp	Leu	Leu	Thr	Ser	Trp	Ile	Ser	Asn	
				85					90					95		
GAA	GGT	GCT	TCC	AGA	ATC	TTC	ATA	GAA	CTC	AAA	TTT	ACC	CTG	CGG	GAC	336
Glu	Gly	Ala	Ser	Arg	Ile	Phe	Ile	Glu	Leu	Lys	Phe	Thr	Leu	Arg	Asp	
			100					105					110			
TGC	AAC	AGC	CTT	CCT	GGA	GGA	CTG	GGG	ACC	TGT	AAG	GAA	ACC	TTT	AAT	384
Cys	Asn	Ser	Leu	Pro	Gly	Gly	Leu	Gly	Thr	Cys	Lys	Glu	Thr	Phe	Asn	
		115					120					125				
ATG	TAT	TAC	TTT	GAG	TCA	GAT	GAT	CAG	AAT	GGG	AGA	AAC	ATC	AAG	GAA	432
Met	Tyr	Tyr	Phe	Glu	Ser	Asp	Asp	Gln	Asn	Gly	Arg	Asn	Ile	Lys	Glu	
	130					135					140					
AAC	CAA	TAC	ATC	AAA	ATT	GAT	ACC	ATT	GCT	GCC	GAT	GAA	AGC	TTT	ACA	480
Asn	Gln	Tyr	Ile	Lys	Ile	Asp	Thr	Ile	Ala	Ala	Asp	Glu	Ser	Phe	Thr	
	145				150					155					160	
GAA	CTT	GAT	CTT	GGT	GAC	CGT	GTT	ATG	AAA	CTG	AAT	ACA	GAG	GTC	AGA	528
Glu	Leu	Asp	Leu	Gly	Asp	Arg	Val	Met	Lys	Leu	Asn	Thr	Glu	Val	Arg	
				165					170					175		
GAT	GTA	GGA	CCT	CTA	AGC	AAA	AAG	GGA	TTT	TAT	CTT	GCT	TTT	CAA	GAT	576
Asp	Val	Gly	Pro	Leu	Ser	Lys	Lys	Gly	Phe	Tyr	Leu	Ala	Phe	Gln	Asp	
			180					185					190			
GTT	GGT	GCT	TGC	ATT	GCT	CTG	GTT	TCT	GTG	CGT	GTA	TAC	TAT	AAA	AAA	624
Val	Gly	Ala	Cys	Ile	Ala	Leu	Val	Ser	Val	Arg	Val	Tyr	Tyr	Lys	Lys	
		195					200					205				

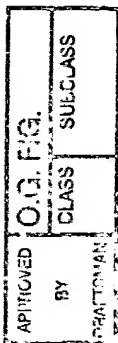
O.G. FIG.	SUBCLASS
	CLASS
APPROVED BY	DATE



RECEIVED
FEB 21 2003
TECH CENTER 1600/2900

FIG. 2B

TGC	CCT	TCT	GTG	GTA	CGA	CAC	TTG	GCT	GTC	TTC	CCT	GAC	ACC	ATC	ACT		
Cys	Pro	Ser	Val	Val	Arg	His	Leu	Ala	Val	Phe	Pro	Asp	Thr	Ile	Thr		
210						215					220						
GGA	GCT	GAT	TCT	TCC	CAA	TTG	CTC	GAA	GTG	TCG	GGC	TCC	TGT	GTC	AAC		720
Gly	Ala	Asp	Ser	Ser	Gln	Leu	Leu	Glu	Val	Ser	Gly	Ser	Cys	Val	Asn		
225					230					235					240		
CAT	TCT	GTG	ACC	GAT	GAA	CCT	CCC	AAA	ATG	CAC	TGC	AGC	GCC	GAA	GGG		768
His	Ser	Val	Thr	Asp	Glu	Pro	Pro	Lys	Met	His	Cys	Ser	Ala	Glu	Gly		
				245					250						255		
GAG	TGG	CTG	GTG	CCC	ATC	GGG	AAA	TGC	ATG	TGC	AAG	GCA	GGA	TAT	GAA		816
Glu	Trp	Leu	Val	Pro	Ile	Gly	Lys	Cys	Met	Cys	Lys	Ala	Gly	Tyr	Glu		
			260					265						270			
GAG	AAA	AAT	GGC	ACC	TGT	CAA	GTG	TGC	AGA	CCT	GGG	TTC	TTC	AAA	GCC		864
Glu	Lys	Asn	Gly	Thr	Cys	Gln	Val	Cys	Arg	Pro	Gly	Phe	Phe	Lys	Ala		
		275						280						285			
TCA	CCT	CAC	ATC	CAG	AGC	TGC	GGC	AAA	TGT	CCA	CCT	CAC	AGT	TAT	ACC		912
Ser	Pro	His	Ile	Gln	Ser	Cys	Gly	Lys	Cys	Pro	Pro	His	Ser	Tyr	Thr		
		290				295						300					
CAT	GAG	GAA	GCT	TCA	ACC	TCT	TGT	GTC	TGT	GAA	AAG	GAT	TAT	TTC	AGG		960
His	Glu	Glu	Ala	Ser	Thr	Ser	Cys	Val	Cys	Glu	Lys	Asp	Tyr	Phe	Arg		
305					310					315					320		
AGA	GAG	TCT	GAT	CCA	CCC	ACA	ATG	GCA	TGC	ACA	AGA	CCC	CCC	TCT	GCT		1008
Arg	Glu	Ser	Asp	Pro	Pro	Thr	Met	Ala	Cys	Thr	Arg	Pro	Pro	Ser	Ala		
				325					330					335			
CCT	CGG	AAT	GCC	ATC	TCA	AAT	GTT	AAT	GAA	ACT	AGT	GTC	TTT	CTG	GAA		1056
Pro	Arg	Asn	Ala	Ile	Ser	Asn	Val	Asn	Glu	Thr	Ser	Val	Phe	Leu	Glu		
			340					345						350			
TGG	ATT	CCG	CCT	GCT	GAC	ACT	GGT	GGA	AGG	AAA	GAC	GTG	TCA	TAT	TAT		1104
Trp	Ile	Pro	Pro	Ala	Asp	Thr	Gly	Gly	Arg	Lys	Asp	Val	Ser	Tyr	Tyr		
		355					360					365					
ATT	GCA	TGC	AAG	AAG	TGC	AAC	TCC	CAT	GCA	GGT	GTG	TGT	GAG	GAG	TGT		1152
Ile	Ala	Cys	Lys	Lys	Cys	Asn	Ser	His	Ala	Gly	Val	Cys	Glu	Glu	Cys		
		370				375					380						
GGC	GGT	CAT	GTC	AGG	TAC	CTT	CCC	CGG	CAA	AGC	GGC	CTG	AAA	AAC	ACC		1200
Gly	Gly	His	Val	Arg	Tyr	Leu	Pro	Arg	Gln	Ser	Gly	Leu	Lys	Asn	Thr		
385					390					395					400		
TCT	GTC	ATG	ATG	GTG	GAT	CTA	CTC	GCT	CAC	ACA	AAC	TAT	ACC	TTT	GAG		1248
Ser	Val	Met	Met	Val	Asp	Leu	Leu	Ala	His	Thr	Asn	Tyr	Thr	Phe	Glu		
				405					410						415		



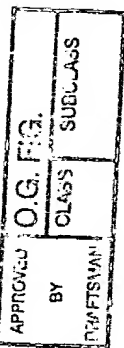


RECEIVED
FEB 21 2003

TECH CENTER 1600/2900

FIG. 2C

ATT	GAG	GCA	GTG	AAT	GGA	GTG	TCC	GAC	TTG	AGC	CCA	GGA	GCC	CGG	CAG	1296
Ile	Glu	Ala	Val	Asn	Gly	Val	Ser	Asp	Leu	Ser	Pro	Gly	Ala	Arg	Gln	
			420					425					430			
TAT	GTG	TCT	GTA	AAT	GTA	ACC	ACA	AAT	CAA	GCA	GCT	CCA	TCT	CCA	GTC	1344
Tyr	Val	Ser	Val	Asn	Val	Thr	Thr	Asn	Gln	Ala	Ala	Pro	Ser	Pro	Val	
			435					440					445			
ACC	AAT	GTG	AAA	AAA	GGG	AAA	ATT	GCA	AAA	AAC	AGC	ATC	TCT	TTG	TCT	1392
Thr	Asn	Val	Lys	Lys	Gly	Lys	Ile	Ala	Lys	Asn	Ser	Ile	Ser	Leu	Ser	
			450					455				460				
TGG	CAA	GAA	CCA	GAT	CGT	CCC	AAT	GGA	ATC	ATC	CTA	GAG	TAT	GAA	ATC	1440
Trp	Gln	Glu	Pro	Asp	Arg	Pro	Asn	Gly	Ile	Ile	Leu	Glu	Tyr	Glu	Ile	
					470					475					480	
AAG	CAT	TTT	GAA	AAG	GAC	CAA	GAG	ACC	AGC	TAC	ACG	ATT	ATC	AAA	TCT	1488
Lys	His	Phe	Glu	Lys	Asp	Gln	Glu	Thr	Ser	Tyr	Thr	Ile	Ile	Lys	Ser	
				485					490					495		
AAA	GAG	ACA	ACT	ATT	ACT	GCA	GAG	GGC	TTG	AAA	CCA	GCT	TCA	GTT	TAT	1536
Lys	Glu	Thr	Thr	Ile	Thr	Ala	Glu	Gly	Leu	Lys	Pro	Ala	Ser	Val	Tyr	
				500				505					510			
GTC	TTC	CAA	ATT	CGA	GCA	CGT	ACA	GCA	GCA	GGC	TAT	GGT	GTC	TTC	AGT	1584
Val	Phe	Gln	Ile	Arg	Ala	Arg	Thr	Ala	Ala	Gly	Tyr	Gly	Val	Phe	Ser	
			515					520				525				
CGA	AGA	TTT	GAG	TTT	GAA	ACC	ACC	CCA	GTG	TTT	GCA	GCA	TCC	AGC	GAT	1632
Arg	Arg	Phe	Glu	Phe	Glu	Thr	Thr	Pro	Val	Phe	Ala	Ala	Ser	Ser	Asp	
			530				535				540					
CAA	AGC	CAG	ATT	CCT	GTA	ATT	GCT	GTG	TCT	GTG	ACA	GTA	GGA	GTC	ATT	1680
Gln	Ser	Gln	Ile	Pro	Val	Ile	Ala	Val	Ser	Val	Thr	Val	Gly	Val	Ile	
					550				555					560		
TTG	TTG	GCA	GTG	GTT	ATC	GGC	GTC	CTC	CTC	AGT	GGA	AGG	CGG	TGT	GGC	1728
Leu	Leu	Ala	Val	Val	Ile	Gly	Val	Leu	Leu	Ser	Gly	Arg	Arg	Cys	Gly	
				565				570						575		
TAC	AGC	AAA	GCA	AAA	CAA	GAT	CCA	GAA	GAG	GAA	AAG	ATG	CAT	TTT	CAT	1776
Tyr	Ser	Lys	Ala	Lys	Gln	Asp	Pro	Glu	Glu	Glu	Lys	Met	His	Phe	His	
			580					585					590			
AAT	GGG	CAC	ATT	AAA	CTG	CCA	GGA	GTA	AGA	ACT	TAC	ATT	GAT	CCA	CAT	1824
Asn	Gly	His	Ile	Lys	Leu	Pro	Gly	Val	Arg	Thr	Tyr	Ile	Asp	Pro	His	
			595				600					605				
ACC	TAT	GAG	GAT	CCC	AAT	CAA	GCT	GTC	CAC	GAA	TTT	GCC	AAG	GAG	ATA	1872
Thr	Tyr	Glu	Asp	Pro	Asn	Gln	Ala	Val	His	Glu	Phe	Ala	Lys	Glu	Ile	
			610				615				620					





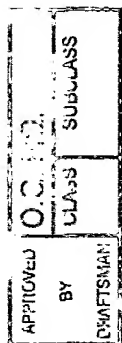
RECEIVED

FEB 21 2003

TECH CENTER 1600/2900

FIG. 2D

GAA GCA TCA TGT ATC ACC ATT GAG AGA GTT ATT GGA GCA GGT GAA TTT	1920
Glu Ala Ser Cys Ile Thr Ile Glu Arg Val Ile Gly Ala Gly Glu Phe	
625 630 635 640	
GGT GAA GTT TGT AGT GGA CGT TTG AAA CTA CCA GGA AAA AGA GAA TTA	1968
Gly Glu Val Cys Ser Gly Arg Leu Lys Leu Pro Gly Lys Arg Glu Leu	
645 650 655	
CCT GTG GCT ATC AAA ACC CTT AAA GTA GGC TAT ACT GAA AAG CAA CGC	2016
Pro Val Ala Ile Lys Thr Leu Lys Val Gly Tyr Thr Glu Lys Gln Arg	
660 665 670	
AGA GAT TTC CTA GGT GAA GCA AGT ATC ATG GGA CAG TTT GAT CAT CCT	2064
Arg Asp Phe Leu Gly Glu Ala Ser Ile Met Gly Gln Phe Asp His Pro	
675 680 685	
AAC ATC ATC CAT TTA GAA GGT GTG GTG ACC AAA AGT AAA CCA GTG ATG	2112
Asn Ile Ile His Leu Glu Gly Val Val Thr Lys Ser Lys Pro Val Met	
690 695 700	
ATC GTG ACA GAG TAT ATG GAG AAT GGC TCT TTA GAT ACA TTT TTG AAG	2160
Ile Val Thr Glu Tyr Met Glu Asn Gly Ser Leu Asp Thr Phe Leu Lys	
705 710 715 720	
AAA AAC GAT GGG CAG TTC ACT GTG ATT CAG CTT GTT GGC ATG CTG AGA	2208
Lys Asn Asp Gly Gln Phe Thr Val Ile Gln Leu Val Gly Met Leu Arg	
725 730 735	
GGT ATC TCT GCA GGA ATG AAG TAC CTT TCT GAC ATG GGC TAT GTG CAT	2256
Gly Ile Ser Ala Gly Met Lys Tyr Leu Ser Asp Met Gly Tyr Val His	
740 745 750	
AGA GAT CTT GCT GCC AGA AAC ATC TTA ATC AAC AGT AAC CTT GTG TGC	2304
Arg Asp Leu Ala Ala Arg Asn Ile Leu Ile Asn Ser Asn Leu Val Cys	
755 760 765	
AAA GTG TCT GAC TTT GGA CTT TCC CGG GTA CTG GAA GAT GAT CCC GAG	2352
Lys Val Ser Asp Phe Gly Leu Ser Arg Val Leu Glu Asp Asp Pro Glu	
770 775 780	
GCA GCC TAC ACC ACA AGG GGA GGA AAA ATT CCA ATC AGA TGG ACT GCC	2400
Ala Ala Tyr Thr Thr Arg Gly Gly Lys Ile Pro Ile Arg Trp Thr Ala	
785 790 795 800	
CCA GAA GCA ATA GCT TTC CGA AAG TTT ACT TCT GCC AGT GAT GTC TGG	2448
Pro Glu Ala Ile Ala Phe Arg Lys Phe Thr Ser Ala Ser Asp Val Trp	
805 810 815	
AGT TAT GGA ATA GTA ATG TGG GAA GTT GTG TCT TAT GGA GAG AGA CCC	2496
Ser Tyr Gly Ile Val Met Trp Glu Val Val Ser Tyr Gly Glu Arg Pro	
820 825 830	





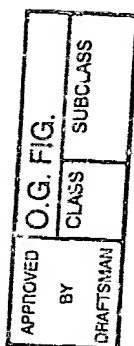
RECEIVED

FEB 21 2003

TECH CENTER 1800/2900

FIG. 2E

TAC TGG GAG ATG ACC AAT CAA GAT GTG ATT AAA GCG GTA GAG GAA GGC	
Tyr Trp Glu Met Thr Asn Gln Asp Val Ile Lys Ala Val Glu Glu Gly	
835 840 845	
TAT CGT CTG CCA AGC CCC ATG GAT TGT CCT GCT GCT CTC TAT CAG TTA	2592
Tyr Arg Leu Pro Ser Pro Met Asp Cys Pro Ala Ala Leu Tyr Gln Leu	
850 855 860	
ATG CTG GAT TGC TGG CAG AAA GAG CGA AAT AGC AGG CCC AAG TTT GAT	2640
Met Leu Asp Cys Trp Gln Lys Glu Arg Asn Ser Arg Pro Lys Phe Asp	
865 870 875 880	
GAA ATA GTC AAC ATG TTG GAC AAG CTG ATA CGT AAC CCA AGT AGT CTG	2688
Glu Ile Val Asn Met Leu Asp Lys Leu Ile Arg Asn Pro Ser Ser Leu	
885 890 895	
AAG ACG CTG GTT AAT GCA TCC TGC AGA GTA TCT AAT TTA TTG GCA GAA	2736
Lys Thr Leu Val Asn Ala Ser Cys Arg Val Ser Asn Leu Leu Ala Glu	
900 905 910	
CAT AGC CCA CTA GGA TCT GGG GCC TAC AGA TCA GTA GGT GAA TGG CTA	2784
His Ser Pro Leu Gly Ser Gly Ala Tyr Arg Ser Val Gly Glu Trp Leu	
915 920 925	
GAG GCA ATC AAG ATG GGC CGG TAT ACA GAG ATT TTC ATG GAA AAT GGA	2832
Glu Ala Ile Lys Met Gly Arg Tyr Thr Glu Ile Phe Met Glu Asn Gly	
930 935 940	
TAC AGT TCA ATG GAC GCT GTG GCT CAG GTG ACC TTG GAG GAT TTG AGA	2880
Tyr Ser Ser Met Asp Ala Val Ala Gln Val Thr Leu Glu Asp Leu Arg	
945 950 955 960	
CGG CTT GGA GTG ACT CTT GTC GGT CAC CAG AAG AAG ATC ATG AAC AGC	2928
Arg Leu Gly Val Thr Leu Val Gly His Gln Lys Lys Ile Met Asn Ser	
965 970 975	
CTT CAA GAA ATG AAG GTG CAG CTG GTA AAC GGA ATG GTG CCA TTG TAACTTCATG	
2983	
Leu Gln Glu Met Lys Val Gln Leu Val Asn Gly Met Val Pro Leu	
980 985 990	
TAAATGTCGC TTCTTCAAGT GAATGATTCT GCACTTTGTA AACAGCACTG AGATTTATTT	3043
TAACAAAAAA AGGGGGAAAA GGGAAAACAG TGATTTCTAA ACCTTAGAAA ACATTTGCCT	3103
CAGCCACAGA ATTTGTAATC ATGGTTTTAC TGAAGTATCC AGTTCTTAGT CCTTAGTCT	3162





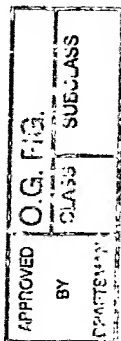
RECEIVED

FEB 21 2003

TECH CENTER 1600/2900

FIG. 3A

AAGCGGCAGG AGCAGCGTTG GCACCGGCGA ACC ATG GCT GGG ATT TTC TAT TTC	54
Met Ala Gly Ile Phe Tyr Phe	
1 5	
GCC CTA TTT TCG TGT CTC TTC GGG ATT TGC GAC GCT GTC ACA GGT TCC	102
Ala Leu Phe Ser Cys Leu Phe Gly Ile Cys Asp Ala Val Thr Gly Ser	
10 15 20	
AGG GTA TAC CCC GCG AAT GAA GTT ACC TTA TTG GAT TCC AGA TCT GTT	150
Arg Val Tyr Pro Ala Asn Glu Val Thr Leu Leu Asp Ser Arg Ser Val	
25 30 35	
CAG GGA GAA CTT GGG TGG ATA GCA AGC CCT CTG GAA GGA GGG TGG GAG	198
Gln Gly Glu Leu Gly Trp Ile Ala Ser Pro Leu Glu Gly Gly Trp Glu	
40 45 50 55	
GAA GTG AGT ATC ATG GAT GAA AAA AAT ACA CCA ATC CGA ACC TAC CAA	246
Glu Val Ser Ile Met Asp Glu Lys Asn Thr Pro Ile Arg Thr Tyr Gln	
60 65 70	
GTG TGC AAT GTG ATG GAA CCC AGC CAG AAT AAC TGG CTA CGA ACT GAT	294
Val Cys Asn Val Met Glu Pro Ser Gln Asn Asn Trp Leu Arg Thr Asp	
75 80 85	
TGG ATC ACC CGA GAA GGG GCT CAG AGG GTG TAT ATT GAG ATT AAA TTC	342
Trp Ile Thr Arg Glu Gly Ala Gln Arg Val Tyr Ile Glu Ile Lys Phe	
90 95 100	
ACC TTG AGG GAC TGC AAT AGT CTT CCG GGC GTC ATG GGG ACT TGC AAG	390
Thr Leu Arg Asp Cys Asn Ser Leu Pro Gly Val Met Gly Thr Cys Lys	
105 110 115	
GAG ACG TTT AAC CTG TAC TAC TAT GAA TCA GAC AAC GAC AAA GAG CGT	438
Glu Thr Phe Asn Leu Tyr Tyr Tyr Glu Ser Asp Asn Asp Lys Glu Arg	
120 125 130 135	
TTC ATC AGA GAG AAC CAG TTT GTC AAA ATT GAC ACC ATT GCT GCT GAT	486
Phe Ile Arg Glu Asn Gln Phe Val Lys Ile Asp Thr Ile Ala Ala Asp	
140 145 150	
GAG AGC TTC ACC CAA GTG GAC ATT GGT GAC AGA ATC ATG AAG CTG AAC	534
Glu Ser Phe Thr Gln Val Asp Ile Gly Asp Arg Ile Met Lys Leu Asn	
155 160 165	
ACC GAG ATC CGG GAT GTA GGG CCA TTA AGC AAA AAG GGG TTT TAC CTG	582
Thr Glu Ile Arg Asp Val Gly Pro Leu Ser Lys Lys Gly Phe Tyr Leu	
170 175 180	

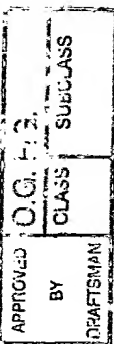




RECEIVED
FEB 21 2003
TECH CENTER 1600/2900

FIG. 3B

GCT	TTT	CAG	GAT	GTG	GGG	GCC	TGC	ATC	GCC	CTG	GTA	TCA	GTC	CGT	GTG	630
Ala	Phe	Gln	Asp	Val	Gly	Ala	Cys	Ile	Ala	Leu	Val	Ser	Val	Arg	Val	
185						190					195					
TTC	TAT	AAA	AAG	TGT	CCA	CTC	ACA	GTC	CGC	AAT	CTG	GCC	CAG	TTT	CCT	678
Phe	Tyr	Lys	Lys	Cys	Pro	Leu	Thr	Val	Arg	Asn	Leu	Ala	Gln	Phe	Pro	
200					205					210					215	
GAC	ACC	ATC	ACA	GGG	GCT	GAT	ACG	TCT	TCC	CTG	GTG	GAA	GTT	CGA	GGC	726
Asp	Thr	Ile	Thr	Gly	Ala	Asp	Thr	Ser	Ser	Leu	Val	Glu	Val	Arg	Gly	
				220					225					230		
TCC	TGT	GTC	AAC	AAC	TCA	GAA	GAG	AAA	GAT	GTG	CCA	AAA	ATG	TAC	TGT	774
Ser	Cys	Val	Asn	Asn	Ser	Glu	Glu	Lys	Asp	Val	Pro	Lys	Met	Tyr	Cys	
			235					240					245			
GGG	GCA	GAT	GGT	GAA	TGG	CTG	GTA	CCC	ATT	GGC	AAC	TGC	CTA	TGC	AAC	822
Gly	Ala	Asp	Gly	Glu	Trp	Leu	Val	Pro	Ile	Gly	Asn	Cys	Leu	Cys	Asn	
		250					255					260				
GCT	GGG	CAT	GAG	GAG	CGG	AGC	GGA	GAA	TGC	CAA	GCT	TGC	AAA	ATT	GGA	870
Ala	Gly	His	Glu	Glu	Arg	Ser	Gly	Glu	Cys	Gln	Ala	Cys	Lys	Ile	Gly	
	265					270					275					
TAT	TAC	AAG	GCT	CTC	TCC	ACG	GAT	GCC	ACC	TGT	GCC	AAG	TGC	CCA	CCC	918
Tyr	Tyr	Lys	Ala	Leu	Ser	Thr	Asp	Ala	Thr	Cys	Ala	Lys	Cys	Pro	Pro	
280					285					290					295	
CAC	AGC	TAC	TCT	GTC	TGG	GAA	GGA	GCC	ACC	TCG	TGC	ACC	TGT	GAC	CGA	966
His	Ser	Tyr	Ser	Val	Trp	Glu	Gly	Ala	Thr	Ser	Cys	Thr	Cys	Asp	Arg	
				300					305					310		
GGC	TTT	TTC	AGA	GCT	GAC	AAC	GAT	GCT	GCC	TCT	ATG	CCC	TGC	ACC	CGT	1014
Gly	Phe	Phe	Arg	Ala	Asp	Asn	Asp	Ala	Ala	Ser	Met	Pro	Cys	Thr	Arg	
			315					320					325			
CCA	CCA	TCT	GCT	CCC	CTG	AAC	TTG	ATT	TCA	AAT	GTC	AAC	GAG	ACA	TCT	1062
Pro	Pro	Ser	Ala	Pro	Leu	Asn	Leu	Ile	Ser	Asn	Val	Asn	Glu	Thr	Ser	
		330					335					340				
GTG	AAC	TTG	GAA	TGG	AGT	AGC	CCT	CAG	AAT	ACA	GGT	GGC	CGC	CAG	GAC	1110
Val	Asn	Leu	Glu	Trp	Ser	Ser	Pro	Gln	Asn	Thr	Gly	Gly	Arg	Gln	Asp	
	345					350					355					
ATT	TCC	TAT	AAT	GTG	GTA	TGC	AAG	AAA	TGT	GGA	GCT	GGT	GAC	CCC	AGC	1158
Ile	Ser	Tyr	Asn	Val	Val	Cys	Lys	Lys	Cys	Gly	Ala	Gly	Asp	Pro	Ser	
360					365					370					375	
AAG	TGC	CGA	CCC	TGT	GGA	AGT	GGG	GTC	CAC	TAC	ACC	CCA	CAG	CAG	AAT	1206
Lys	Cys	Arg	Pro	Cys	Gly	Ser	Gly	Val	His	Tyr	Thr	Pro	Gln	Gln	Asn	
				380					385					390		





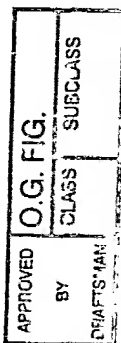
RECEIVED

FEB 21 2003

TECH CENTER 1600/2900

FIG. 3C

GGC	TTG	AAG	ACC	ACC	AAA	GTC	TCC	ATC	ACT	GAC	CTC	CTA	GCT	CAT	ACC	1254
Gly	Leu	Lys	Thr	Thr	Lys	Val	Ser	Ile	Thr	Asp	Leu	Leu	Ala	His	Thr	
			395					400					405			
AAT	TAC	ACC	TTT	GAA	ATC	TGG	GCT	GTG	AAT	GGA	GTG	TCC	AAA	TAT	AAC	1302
Asn	Tyr	Thr	Phe	Glu	Ile	Trp	Ala	Val	Asn	Gly	Val	Ser	Lys	Tyr	Asn	
			410				415					420				
CCT	AAC	CCA	GAC	CAA	TCA	GTT	TCT	GTC	ACT	GTG	ACC	ACC	AAC	CAA	GCA	1350
Pro	Asn	Pro	Asp	Gln	Ser	Val	Ser	Val	Thr	Val	Thr	Thr	Asn	Gln	Ala	
			425				430				435					
GCA	CCA	TCA	TCC	ATT	GCT	TTG	GTC	CAG	GCT	AAA	GAA	GTC	ACA	AGA	TAC	1398
Ala	Pro	Ser	Ser	Ile	Ala	Leu	Val	Gln	Ala	Lys	Glu	Val	Thr	Arg	Tyr	
			440		445				450						455	
AGT	GTG	GCA	CTG	GCT	TGG	CTG	GAA	CCA	GAT	CGG	CCC	AAT	GGG	GTA	ATC	1446
Ser	Val	Ala	Leu	Ala	Trp	Leu	Glu	Pro	Asp	Arg	Pro	Asn	Gly	Val	Ile	
				460				465						470		
CTG	GAA	TAT	GAA	GTC	AAG	TAT	TAT	GAG	AAG	GAT	CAG	AAT	GAG	CGA	AGC	1494
Leu	Glu	Tyr	Glu	Val	Lys	Tyr	Tyr	Glu	Lys	Asp	Gln	Asn	Glu	Arg	Ser	
			475					480					485			
TAT	CGT	ATA	GTT	CGG	ACA	GCT	GCC	AGG	AAC	ACA	GAT	ATC	AAA	GGC	CTG	1542
Tyr	Arg	Ile	Val	Arg	Thr	Ala	Ala	Arg	Asn	Thr	Asp	Ile	Lys	Gly	Leu	
			490				495					500				
AAC	CCT	CTC	ACT	TCC	TAT	GTT	TTC	CAC	GTG	CGA	GCC	AGG	ACA	GCA	GCT	1590
Asn	Pro	Leu	Thr	Ser	Tyr	Val	Phe	His	Val	Arg	Ala	Arg	Thr	Ala	Ala	
			505				510				515					
GGC	TAT	GGA	GAC	TTC	AGT	GAG	CCC	TTG	GAG	GTT	ACA	ACC	AAC	ACA	GTG	1638
Gly	Tyr	Gly	Asp	Phe	Ser	Glu	Pro	Leu	Glu	Val	Thr	Thr	Asn	Thr	Val	
			520		525				530						535	
CCT	TCC	CGG	ATC	ATT	GGA	GAT	GGG	GCT	AAC	TCC	ACA	GTC	CTT	CTG	GTC	1686
Pro	Ser	Arg	Ile	Ile	Gly	Asp	Gly	Ala	Asn	Ser	Thr	Val	Leu	Leu	Val	
				540				545						550		
TCT	GTC	TCG	GGC	AGT	GTG	GTG	CTG	GTG	GTA	ATT	CTC	ATT	GCA	GCT	TTT	1734
Ser	Val	Ser	Gly	Ser	Val	Val	Leu	Val	Val	Ile	Leu	Ile	Ala	Ala	Phe	
			555					560					565			
GTC	ATC	AGC	CGG	AGA	CGG	AGT	AAA	TAC	AGT	AAA	GCC	AAA	CAA	GAA	GCG	1782
Val	Ile	Ser	Arg	Arg	Arg	Ser	Lys	Tyr	Ser	Lys	Ala	Lys	Gln	Glu	Ala	
			570				575					580				
GAT	GAA	GAG	AAA	CAT	TTG	AAT	CAA	GGT	GTA	AGA	ACA	TAT	GTG	GAC	CCC	1830
Asp	Glu	Glu	Lys	His	Leu	Asn	Gln	Gly	Val	Arg	Thr	Tyr	Val	Asp	Pro	
			585			590					595					





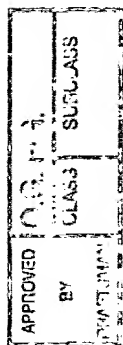
RECEIVED

FEB 21 2003

FIG. 3D

TECH CENTER 1600/2900

TTT	ACG	TAC	GAA	GAT	CCC	AAC	CAA	GCA	GTG	CGA	GAG	TTT	GCC	AAA	GAA	1878
Phe	Thr	Tyr	Glu	Asp	Pro	Asn	Gln	Ala	Val	Arg	Glu	Phe	Ala	Lys	Glu	
600					605				610						615	
ATT	GAC	GCA	TCC	TGC	ATT	AAG	ATT	GAA	AAA	GTT	ATA	GGA	GTT	GGT	GAA	1926
Ile	Asp	Ala	Ser	Cys	Ile	Lys	Ile	Glu	Lys	Val	Ile	Gly	Val	Gly	Glu	
				620					625						630	
TTT	GGT	GAG	GTA	TGC	AGT	GGG	CGT	CTC	AAA	GTG	CCT	GGC	AAG	AGA	GAG	1974
Phe	Gly	Glu	Val	Cys	Ser	Gly	Arg	Leu	Lys	Val	Pro	Gly	Lys	Arg	Glu	
			635					640						645		
ATC	TGT	GTG	GCT	ATC	AAG	ACT	CTG	AAA	GCT	GGT	TAT	ACA	GAC	AAA	CAG	2022
Ile	Cys	Val	Ala	Ile	Lys	Thr	Leu	Lys	Ala	Gly	Tyr	Thr	Asp	Lys	Gln	
		650					655						660			
AGG	AGA	GAC	TTC	CTG	AGT	GAG	GCC	AGC	ATC	ATG	GGA	CAG	TTT	GAC	CAT	2070
Arg	Arg	Asp	Phe	Leu	Ser	Glu	Ala	Ser	Ile	Met	Gly	Gln	Phe	Asp	His	
		665				670						675				
CCG	AAC	ATC	ATT	CAC	TTG	GAA	GGC	GTG	GTC	ACT	AAA	TGT	AAA	CCA	GTA	2118
Pro	Asn	Ile	Ile	His	Leu	Glu	Gly	Val	Val	Thr	Lys	Cys	Lys	Pro	Val	
680					685					690					695	
ATG	ATC	ATA	ACA	GAG	TAC	ATG	GAG	AAT	GGC	TCC	TTG	GAT	GCA	TTC	CTC	2166
Met	Ile	Ile	Thr	Glu	Tyr	Met	Glu	Asn	Gly	Ser	Leu	Asp	Ala	Phe	Leu	
				700					705						710	
AGG	AAA	AAT	GAT	GGC	AGA	TTT	ACA	GTC	ATT	CAG	CTG	GTG	GGC	ATG	CTT	2214
Arg	Lys	Asn	Asp	Gly	Arg	Phe	Thr	Val	Ile	Gln	Leu	Val	Gly	Met	Leu	
			715					720					725			
CGT	GGC	ATT	GGG	TCT	GGG	ATG	AAG	TAT	TTA	TCT	GAT	ATG	AGC	TAT	GTG	2262
Arg	Gly	Ile	Gly	Ser	Gly	Met	Lys	Tyr	Leu	Ser	Asp	Met	Ser	Tyr	Val	
		730					735					740				
CAT	CGT	GAT	CTG	GCC	GCA	CGG	AAC	ATC	CTG	GTG	AAC	AGC	AAC	TTG	GTC	2310
His	Arg	Asp	Leu	Ala	Ala	Arg	Asn	Ile	Leu	Val	Asn	Ser	Asn	Leu	Val	
		745				750					755					
TGC	AAA	GTG	TCT	GAT	TTT	GGC	ATG	TCC	CGA	GTG	CTT	GAG	GAT	GAT	CCG	2358
Cys	Lys	Val	Ser	Asp	Phe	Gly	Met	Ser	Arg	Val	Leu	Glu	Asp	Asp	Pro	
760					765					770					775	
GAA	GCA	GCT	TAC	ACC	ACC	AGG	GGT	GGC	AAG	ATT	CCT	ATC	CGG	TGG	ACT	2406
Glu	Ala	Ala	Tyr	Thr	Thr	Arg	Gly	Gly	Lys	Ile	Pro	Ile	Arg	Trp	Thr	
				780					785						790	
GCG	CCA	GAA	GCA	ATT	GCC	TAT	CGT	AAA	TTC	ACA	TCA	GCA	AGT	GAT	GTA	2454
Ala	Pro	Glu	Ala	Ile	Ala	Tyr	Arg	Lys	Phe	Thr	Ser	Ala	Ser	Asp	Val	
			795					800						805		



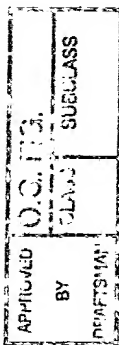


RECEIVED
FEB 21 2003

FIG. 3E

SH CENTER 1600/2900

TGG AGC TAT GGA ATC GTT ATG TGG GAA GTG ATG TCG TAC GGG GAG AGG	
Trp Ser Tyr Gly Ile Val Met Trp Glu Val Met Ser Tyr Gly Glu Arg	
810 815 820	
CCC TAT TGG GAT ATG TCC AAT CAA GAT GTG ATT AAA GCC ATT GAG GAA	2550
Pro Tyr Trp Asp Met Ser Asn Gln Asp Val Ile Lys Ala Ile Glu Glu	
825 830 835	
GGC TAT CGG TTA CCC CCT CCA ATG GAC TGC CCC ATT GCG CTC CAC CAG	2598
Gly Tyr Arg Leu Pro Pro Pro Met Asp Cys Pro Ile Ala Leu His Gln	
840 845 850 855	
CTG ATG CTA GAC TGC TGG CAG AAG GAG AGG AGC GAC AGG CCT AAA TTT	2646
Leu Met Leu Asp Cys Trp Gln Lys Glu Arg Ser Asp Arg Pro Lys Phe	
860 865 870	
GGG CAG ATT GTC AAC ATG TTG GAC AAA CTC ATC CGC AAC CCC AAC AGC	2694
Gly Gln Ile Val Asn Met Leu Asp Lys Leu Ile Arg Asn Pro Asn Ser	
875 880 885	
TTG AAG AGG ACA GGG ACG GAG AGC TCC AGA CCT AAC ACT GCC TTG TTG	2742
Leu Lys Arg Thr Gly Thr Glu Ser Ser Arg Pro Asn Thr Ala Leu Leu	
890 895 900	
GAT CCA AGC TCC CCT GAA TTC TCT GCT GTG GTA TCA GTG GGC GAT TGG	2790
Asp Pro Ser Ser Pro Glu Phe Ser Ala Val Val Ser Val Gly Asp Trp	
905 910 915	
CTC CAG GCC ATT AAA ATG GAC CGG TAT AAG GAT AAC TTC ACA GCT GCT	2838
Leu Gln Ala Ile Lys Met Asp Arg Tyr Lys Asp Asn Phe Thr Ala Ala	
920 925 930 935	
GGT TAT ACC ACA CTA GAG GCT GTG GTG CAC GTG AAC CAG GAG GAC CTG	2886
Gly Tyr Thr Thr Leu Glu Ala Val Val His Val Asn Gln Glu Asp Leu	
940 945 950	
GCA AGA ATT GGT ATC ACA GCC ATC ACG CAC CAG AAT AAG ATT TTG AGC	2934
Ala Arg Ile Gly Ile Thr Ala Ile Thr His Gln Asn Lys Ile Leu Ser	
955 960 965	
AGT GTC CAG GCA ATG CGA ACC CAA ATG CAG CAG ATG CAC GGC AGA ATG	2982
Ser Val Gln Ala Met Arg Thr Gln Met Gln Gln Met His Gly Arg Met	
970 975 980	
GTT CCC GTC TGAGCCAGTA CTGAATAAAC TCAAACTCT TGAAATTAGT	3031
Val Pro Val	
985	
TTACCTCATC CATGCACTTT AATTGAAGAA CTGCACTTTT TTTACTTCGT CTTCGCCCTC	3091
TGAAATTAAA GAAATGAAAA AAAAA	3116





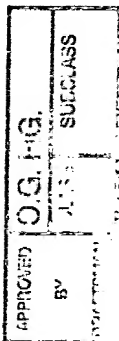
RECEIVED

FEB 21 2003

TECH CENTER 1600/2900

FIG. 4A

CGGTGCGAGC GAACAGGAGT GGGGGGGAAA TTAAAAAAG CTAAACGTGG AGCAGCCGAT	60
CGGGGACCGA GAAGGGGAAT CGATGCAAGG AGCACACTAA AACAAAAGCT ACTTCGGAAC	120
AAACAGCATT TAAAAATCCA CGACTCAAGA TAACTGAAAC CTAAAATAAA ACCTGCTCAT	180
GCACC ATG GTT TTT CAA ACT CGG TAC CCT TCA TGG ATT ATT TTA TGC Met Val Phe Gln Thr Arg Tyr Pro Ser Trp Ile Ile Leu Cys	227
1 5 10	
TAC ATC TGG CTG CTC CGC TTT GCA CAC ACA GGG GAG GCG CAG GCT GCG Tyr Ile Trp Leu Leu Arg Phe Ala His Thr Gly Glu Ala Gln Ala Ala	275
15 20 25 30	
AAG GAA GTA CTA CTG CTG GAT TCT AAA GCA CAA CAA ACA GAG TTG GAG Lys Glu Val Leu Leu Leu Asp Ser Lys Ala Gln Gln Thr Glu Leu Glu	323
35 40 45	
TGG ATT TCC TCT CCA CCC AAT GGG TGG GAA GAA ATT AGT GGT TTG GAT Trp Ile Ser Ser Pro Pro Asn Gly Trp Glu Glu Ile Ser Gly Leu Asp	371
50 55 60	
GAG AAC TAT ACC CCG ATA CGA ACA TAC CAG GTG TGC CAA GTC ATG GAG Glu Asn Tyr Thr Pro Ile Arg Thr Tyr Gln Val Cys Gln Val Met Glu	419
65 70 75	
CCC AAC CAA AAC AAC TGG CTG CGG ACT AAC TGG ATT TCC AAA GGC AAT Pro Asn Gln Asn Asn Trp Leu Arg Thr Asn Trp Ile Ser Lys Gly Asn	467
80 85 90	
GCA CAA AGG ATT TTT GTA GAA TTG AAA TTC ACC CTG AGG GAT TGT AAC Ala Gln Arg Ile Phe Val Glu Leu Lys Phe Thr Leu Arg Asp Cys Asn	515
95 100 105 110	
AGT CTT CCT GGA GTA CTG GGA ACT TGC AAG GAA ACA TTT AAT TTG TAC Ser Leu Pro Gly Val Leu Gly Thr Cys Lys Glu Thr Phe Asn Leu Tyr	563
115 120 125	
TAT TAT GAA ACA GAC TAT GAC ACT GGC AGG AAT ATA AGA GAA AAC CTC Tyr Tyr Glu Thr Asp Tyr Asp Thr Gly Arg Asn Ile Arg Glu Asn Leu	611
130 135 140	
TAT GTA AAA ATA GAC ACC ATT GCT GCA GAT GAA AGT TTT ACC CAA GGT Tyr Val Lys Ile Asp Thr Ile Ala Ala Asp Glu Ser Phe Thr Gln Gly	659
145 150 155	
GAC CTT GGT GAA AGA AAG ATG AAG CTT AAC ACT GAG GTG AGA GAG ATT Asp Leu Gly Glu Arg Lys Met Lys Leu Asn Thr Glu Val Arg Glu Ile	707
160 165 170	





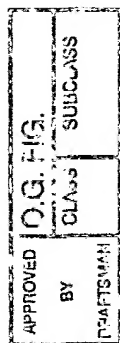
RECEIVED

FEB 8 1 2003

TECH CENTER 1800/2900

FIG. 4B

GGA CCT TTG TCC AAA AAG GGA TTC TAT CTT GCC TTT CAG GAT GTA GGG	755
Gly Pro Leu Ser Lys Lys Gly Phe Tyr Leu Ala Phe Gln Asp Val Gly	
175 180 185 190	
GCT TGC ATA GCT TTG GTT TCT GTC AAA GTG TAC TAC AAG AAG TGC TGG	803
Ala Cys Ile Ala Leu Val Ser Val Lys Val Tyr Tyr Lys Lys Cys Trp	
195 200 205	
TCC ATT ATT GAG AAC TTA GCT ATC TTT CCA GAT ACA GTG ACT GGT TCA	851
Ser Ile Ile Glu Asn Leu Ala Ile Phe Pro Asp Thr Val Thr Gly Ser	
210 215 220	
GAA TTT TCC TCT TTA GTC GAG GTT CGA GGG ACA TGT GTC AGC AGT GCA	899
Glu Phe Ser Ser Leu Val Glu Val Arg Gly Thr Cys Val Ser Ser Ala	
225 230 235	
GAG GAA GAA GCG GAA AAC GCC CCC AGG ATG CAC TGC AGT GCA GAA GGA	947
Glu Glu Glu Ala Glu Asn Ala Pro Arg Met His Cys Ser Ala Glu Gly	
240 245 250	
GAA TGG TTA GTG CCC ATT GGA AAA TGT ATC TGC AAA GCA GGC TAC CAG	995
Glu Trp Leu Val Pro Ile Gly Lys Cys Ile Cys Lys Ala Gly Tyr Gln	
255 260 265 270	
CAA AAA GGA GAC ACT TGT GAA CCC TGT GGC CGT GGG TTC TAC AAG TCT	1043
Gln Lys Gly Asp Thr Cys Glu Pro Cys Gly Arg Gly Phe Tyr Lys Ser	
275 280 285	
TCC TCT CAA GAT CTT CAG TGC TCT CGT TGT CCA ACT CAC AGT TTT TCT	1091
Ser Ser Gln Asp Leu Gln Cys Ser Arg Cys Pro Thr His Ser Phe Ser	
290 295 300	
GAT AAA GAA GGC TCC TCC AGA TGT GAA TGT GAA GAT GGG TAT TAC AGG	1139
Asp Lys Glu Gly Ser Ser Arg Cys Glu Cys Glu Asp Gly Tyr Tyr Arg	
305 310 315	
GCT CCA TCT GAC CCA CCA TAC GTT GCA TGC ACA AGG CCT CCA TCT GCA	1187
Ala Pro Ser Asp Pro Pro Tyr Val Ala Cys Thr Arg Pro Pro Ser Ala	
320 325 330	
CCA CAG AAC CTC ATT TTC AAC ATC AAC CAA ACC ACA GTA AGT TTG GAA	1235
Pro Gln Asn Leu Ile Phe Asn Ile Asn Gln Thr Thr Val Ser Leu Glu	
335 340 345 350	
TGG AGT CCT CCT GCA GAC AAT GGG GGA AGA AAC GAT GTG ACC TAC AGA	1283
Trp Ser Pro Pro Ala Asp Asn Gly Gly Arg Asn Asp Val Thr Tyr Arg	
355 360 365	
ATA TTG TGT AAG CGG TGC AGT TGG GAG CAG GGC GAA TGT GTT CCC TGT	1331
Ile Leu Cys Lys Arg Cys Ser Trp Glu Gln Gly Glu Cys Val Pro Cys	
370 375 380	



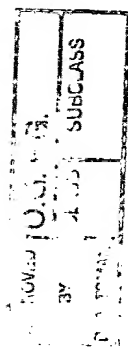


RECEIVED
FEB 21 2003

TECH CENTER 1600/2900

FIG. 4C

GGG AGT AAC ATT GGA TAC ATG CCC CAG CAG ACT GGA TTA GAG GAT AAC	1379
Gly Ser Asn Ile Gly Tyr Met Pro Gln Gln Thr Gly Leu Glu Asp Asn	
385 390 395	
TAT GTC ACT GTC ATG GAC CTG CTA GCC CAC GCT AAT TAT ACT TTT GAA	1427
Tyr Val Thr Val Met Asp Leu Leu Ala His Ala Asn Tyr Thr Phe Glu	
400 405 410	
GTT GAA GCT GTA AAT GGA GTT TCT GAC TTA AGC CGA TCC CAG AGG CTC	1475
Val Glu Ala Val Asn Gly Val Ser Asp Leu Ser Arg Ser Gln Arg Leu	
415 420 425 430	
TTT GCT GCT GTC AGT ATC ACC ACT GGT CAA GCA GCT CCC TCG CAA GTG	1523
Phe Ala Ala Val Ser Ile Thr Thr Gly Gln Ala Ala Pro Ser Gln Val	
435 440 445	
AGC GGA GTA ATG AAG GAG AGA GTA CTG CAG CGG AGT GTC GAG CTT TCC	1571
Ser Gly Val Met Lys Glu Arg Val Leu Gln Arg Ser Val Glu Leu Ser	
450 455 460	
TGG CAG GAA CCA GAG CAT CCC AAT GGA GTC ATC ACA GAA TAT GAA ATC	1619
Trp Gln Glu Pro Glu His Pro Asn Gly Val Ile Thr Glu Tyr Glu Ile	
465 470 475	
AAG TAT TAC GAG AAA GAT CAA AGG GAA CGG ACC TAC TCA ACA GTA AAA	1667
Lys Tyr Tyr Glu Lys Asp Gln Arg Glu Arg Thr Tyr Ser Thr Val Lys	
480 485 490	
ACC AAG TCT ACT TCA GCC TCC ATT AAT AAT CTG AAA CCA GGA ACA GTG	1715
Thr Lys Ser Thr Ser Ala Ser Ile Asn Asn Leu Lys Pro Gly Thr Val	
495 500 505 510	
TAT GTT TTC CAG ATT CGG GCT TTT ACT GCT GCT GGT TAT GGA AAT TAC	1763
Tyr Val Phe Gln Ile Arg Ala Phe Thr Ala Ala Gly Tyr Gly Asn Tyr	
515 520 525	
AGT CCC AGA CTT GAT GTT GCT ACA CTA GAG GAA GCT ACA GGT AAA ATG	1811
Ser Pro Arg Leu Asp Val Ala Thr Leu Glu Glu Ala Thr Gly Lys Met	
530 535 540	
TTT GAA GCT ACA GCT GTC TCC AGT GAA CAG AAT CCT GTT ATT ATC ATT	1859
Phe Glu Ala Thr Ala Val Ser Ser Glu Gln Asn Pro Val Ile Ile Ile	
545 550 555	
GCT GTG GTT GCT GTA GCT GGG ACC ATC ATT TTG GTG TTC ATG GTC TTT	1907
Ala Val Val Ala Val Ala Gly Thr Ile Ile Leu Val Phe Met Val Phe	
560 565 570	
GGC TTC ATC ATT GGG AGA AGG CAC TGT GGT TAT AGC AAA GCT GAC CAA	1955
Gly Phe Ile Ile Gly Arg Arg His Cys Gly Tyr Ser Lys Ala Asp Gln	
575 580 585 590	

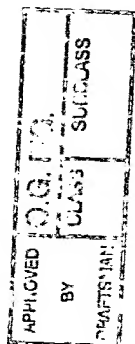




RECEIVED
FEB 21 2003
TECH CENTER 1600/2900

FIG. 4D

GAA GGC GAT GAA GAG CTT TAC TTT CAT TTT AAA TTT CCA GGC ACC AAA Glu Gly Asp Glu Glu Leu Tyr Phe His Phe Lys Phe Pro Gly Thr Lys 595 600 605	2003
ACC TAC ATT GAC CCT GAA ACC TAT GAG GAC CCA AAT AGA GCT GTC CAT Thr Tyr Ile Asp Pro Glu Thr Tyr Glu Asp Pro Asn Arg Ala Val His 610 615 620	2051
CAA TTC GCC AAG GAG CTA GAT GCC TCC TGT ATT AAA ATT GAG CGT GTG Gln Phe Ala Lys Glu Leu Asp Ala Ser Cys Ile Lys Ile Glu Arg Val 625 630 635	2099
ATT GGT GCA GGA GAA TTC GGT GAA GTC TGC AGT GGC CGT TTG AAA CTT Ile Gly Ala Gly Glu Phe Gly Glu Val Cys Ser Gly Arg Leu Lys Leu 640 645 650	2147
CCA GGG AAA AGA GAT GTT GCA GTA GCC ATA AAA ACC CTG AAA GTT GGT Pro Gly Lys Arg Asp Val Ala Val Ala Ile Lys Thr Leu Lys Val Gly 655 660 665 670	2195
TAC ACA GAA AAA CAA AGG AGA GAC TTT TTG TGT GAA GCA AGC ATC ATG Tyr Thr Glu Lys Gln Arg Arg Asp Phe Leu Cys Glu Ala Ser Ile Met 675 680 685	2243
GGG CAG TTT GAC CAC CCA AAT GTT GTC CAT TTG GAA GGG GTT GTT ACA Gly Gln Phe Asp His Pro Asn Val Val His Leu Glu Gly Val Val Thr 690 695 700	2291
AGA GGG AAA CCA GTC ATG ATA GTA ATA GAG TTC ATG GAA AAT GGA GCC Arg Gly Lys Pro Val Met Ile Val Ile Glu Phe Met Glu Asn Gly Ala 705 710 715	2339
CTA GAT GCA TTT CTC AGG AAA CAT GAT GGG CAA TTT ACA GTC ATT CAG Leu Asp Ala Phe Leu Arg Lys His Asp Gly Gln Phe Thr Val Ile Gln 720 725 730	2387
TTA GTA GGA ATG CTG AGA GGA ATT GCT GCT GGA ATG AGA TAT TTG GCT Leu Val Gly Met Leu Arg Gly Ile Ala Ala Gly Met Arg Tyr Leu Ala 735 740 745 750	2435
GAT ATG GGA TAT GTT CAC AGG GAC CTT GCA GCT CGC AAT ATT CTT GTC Asp Met Gly Tyr Val His Arg Asp Leu Ala Ala Arg Asn Ile Leu Val 755 760 765	2483
AAC AGC AAT CTC GTT TGT AAA GTG TCA GAT TTT GGC CTG TCC CGA GTT Asn Ser Asn Leu Val Cys Lys Val Ser Asp Phe Gly Leu Ser Arg Val 770 775 780	2531
ATA GAG GAT GAT CCA GAA GCT GTC TAT ACA ACT ACT GGT GGA AAA ATT Ile Glu Asp Asp Pro Glu Ala Val Tyr Thr Thr Thr Gly Gly Lys Ile 785 790 795	2579





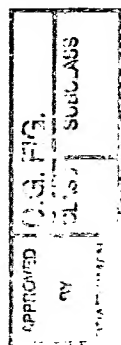
RECEIVED

FEB 21 2003

FIG. 4E

TECH CENTER 1600/2900

CCA GTA AGG TGG ACA GCA CCC GAA GCC ATC CAG TAC CGG AAA TTC ACA	2627
Pro Val Arg Trp Thr Ala Pro Glu Ala Ile Gln Tyr Arg Lys Phe Thr	
800 805 810	
TCA GCC AGT GAT GTA TGG AGC TAT GGA ATA GTC ATG TGG GAA GTT ATG	2675
Ser Ala Ser Asp Val Trp Ser Tyr Gly Ile Val Met Trp Glu Val Met	
815 820 825 830	
TCT TAT GGA GAA AGA CCT TAT TGG GAC ATG TCA AAT CAA GAT GTT ATA	2723
Ser Tyr Gly Glu Arg Pro Tyr Trp Asp Met Ser Asn Gln Asp Val Ile	
835 840 845	
AAA GCA ATA GAA GAA GGT TAT CGT TTA CCA GCA CCC ATG GAC TGC CCA	2771
Lys Ala Ile Glu Glu Gly Tyr Arg Leu Pro Ala Pro Met Asp Cys Pro	
850 855 860	
GCT GGC CTT CAC CAG CTA ATG TTG GAT TGT TGG CAA AAG GAG CGT GCT	2819
Ala Gly Leu His Gln Leu Met Leu Asp Cys Trp Gln Lys Glu Arg Ala	
865 870 875	
GAA AGG CCA AAA TTT GAA CAG ATA GTT GGA ATT CTA GAC AAA ATG ATT	2867
Glu Arg Pro Lys Phe Glu Gln Ile Val Gly Ile Leu Asp Lys Met Ile	
880 885 890	
CGA AAC CCA AAT AGT CTG AAA ACT CCC CTG GGA ACT TGT AGT AGG CCA	2915
Arg Asn Pro Asn Ser Leu Lys Thr Pro Leu Gly Thr Cys Ser Arg Pro	
895 900 905 910	
ATA AGC CCT CTT CTG GAT CAA AAC ACT CCT GAT TTC ACT ACC TTT TGT	2963
Ile Ser Pro Leu Leu Asp Gln Asn Thr Pro Asp Phe Thr Thr Phe Cys	
915 920 925	
TCA GTT GGA GAA TGG CTA CAA GCT ATT AAG ATG GAA AGA TAT AAA GAT	3011
Ser Val Gly Glu Trp Leu Gln Ala Ile Lys Met Glu Arg Tyr Lys Asp	
930 935 940	
AAT TTC ACG GCA GCT GGC TAC AAT TCC CTT GAA TCA GTA GCC AGG ATG	3059
Asn Phe Thr Ala Ala Gly Tyr Asn Ser Leu Glu Ser Val Ala Arg Met	
945 950 955	
ACT ATT GAG GAT GTG ATG AGT TTA GGG ATC ACA CTG GTT GGT CAT CAA	3107
Thr Ile Glu Asp Val Met Ser Leu Gly Ile Thr Leu Val Gly His Gln	
960 965 970	
AAG AAA ATC ATG AGC AGC ATT CAG ACT ATG AGA GCA CAA ATG CTA CAT	3155
Lys Lys Ile Met Ser Ser Ile Gln Thr Met Arg Ala Gln Met Leu His	
975 980 985 990	
TTA CAT GGA ACT GGC ATT CAA GTG TGATATGCAT TTCTCCCTTT TAAGGGAGAT	3209
Leu His Gly Thr Gly Ile Gln Val	
995	





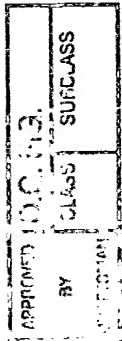
RECEIVED

FEB 21 2003

TECH CENTER 1600/2900

FIG. 4F

TACAGACTGC	AAGAGAACAG	TACTGGCCTT	CAGTATATGC	ATAGAATGCT	GCTAGAAGAC	3269
AAGTGATGTC	CTGGGTCCCT	CCAACAGTGA	AGAGAAGATT	TAAGAAGCAC	CTATAGACTT	3329
GAACTCCTAA	GTGCCACCAG	AATATATAAA	AAGGGAATTT	AGGATCCACC	ATCGGTGGCC	3389
AGGAAAATAG	CAGTGACAAT	AAACAAAGTA	CTACCTGAAA	AACATCCAAA	CACCTTGAGC	3449
TCTCTAACCT	CCTTTTGTGTC	TTATAGACTT	TTTAAAATGT	ACATAAAGAA	TTTAAGAAAG	3509
AATATATTTG	TCAAATAAAA	TCATGATCTT	ATTGTTAAAA	TTAATGAAAT	ATTTTCCTTA	3569
AATATGTGAT	TTCAGACTAT	TCCTTTTTTAA	AATCATTGTG	GTTTATTCTT	CATAAGGACT	3629
TTGTTTTAGA	AAGCTGTTTA	TAGCTTTGGA	CCTTTTTAGT	GTTAAATCTG	TAACATTACT	3689
ACACTGGGTA	CCTTTGAAAG	AATCTCAAAT	TTCAAAAGAA	ATAGCATGAT	TGAAGATACA	3749
TCTCTGTTAG	AACATTGGTA	TCCTTTTTTGT	GCCATTTTAT	TCTGTTTAAT	CAGTGCTGTT	3809
TTGATATTGT	TTGCTAATTG	GCAGGTAGTC	AAGAAAATGC	AAGTTGCCAA	GAGCTCTGAT	3869
ATTTTTTAAA	AAGAATTTTT	TTGTAAAGAT	CAGACAACAC	ACTATCTTTT	CAATGAAAAA	3929
AGCAATAATG	ATCCATACAT	ACTATAAGGC	ACTTTTAAAC	GATTGTTTAT	AGAGTGATTT	3989
TACTAGAAAG	AATTTAATAA	ACTCGAAGTT	TAGGTTTATG	AGTATATAAA	CAAATGAGGC	4049
ACTTCATCTG	AAGAATGTTG	GTGAAGGCAA	GTCTCTGAAA	GCAGAACTAT	CCAGTGTTAT	4109
CTAAAAATTA	ATCTGAGCAC	ATCAAGATTT	TTTCATTCTC	GTGACATTAG	GAAATTTAGG	4169
ATAAATAGTT	GACATATATT	TTATATCCTC	TTCTGTTGAA	TGCAGTCCAA	ACATGAAAGG	4229
AAATAATTGT	TTTATATTAT	AACCTCTGAAG	CATGATAAAG	GGGCAGTTCA	CAATTTTCAC	4289
CATTTAAACA	CAAATTTGCT	GCACAGAATA	TCACCATTGC	AGTTCAAAAC	AAAACAAAAC	4349
AAAAAGTCTT	TTGTTTGTGA	ACACTGATGC	AAGAACTTGT	TTAAATGAAA	GGACTCTTTA	4409
CCCTAGAAGG	AAGAGGTGAA	GGATCTGGCT	TGTTTTTAAA	GCTTTATTTA	TTAAACCATA	4469
TTATTTGATT	ACTGTGTTAG	AATTTTCATAA	GCAATAATTA	AATGTGTCTT	TATGGAATTC	4529





RECEIVED

FEB 21 2003

TECH CENTER 1600/2000

FIG. 5A

*

CONS MARARPP.....s..ll..lllldal...aa.pa.EvtlLdskt.qgelGwishpp..Gwee.sg.den.tpirtYqCnvme.sqpn.WLrtnwi:
EPH MERRWPLGLGLVLLLCAPLPPGARAKEVTLMDSKAQELGWLDDPKDGWSEQQIILNGT.PLYMQDCPMQRRDTHWLRSNWIY
ECK MELQAARACAFALLWGCALAAAAAQAQKEVLLDFAAAGGELGWLTHPYGKGWDLMQNIMDM.PIYMSVCNVMMSGDDN.WLRTNWVY
HEK4 MDCQLSILLLLSCSVLDSFGELIPQPSNEVNLLDSKTIQELGWI SYPSH.GWEEISGVDEHYTPRTYQVCNVMMDHSQNN.WLRTNWVP
HEK5 LLAAVEETLMDSTTATAELGMMVHPPS.GWEEVSGYDENMNTIRTYQVCNVFESSQNN.WLRTKFIR
HEK7 ALRTLLASPSNEVNLLDSRTVMGDLGWIAFPKN.GWEEIGEVDENYAPIHTYQVCNMEQNQNN.WLLTSWIS
HEK8 MAGIFYFALFSCFLGICDAVTGSRVYPANEVTLLDSRSVQELGWIASPLEGGWEEV SIMDEKNTPTRTYQVCNMEPSQNN.WLRTDWIT
HEK2 MARARPPPPPPGLPLPLPLPLPLLLPAGCRAL EETLMDTKWVTS ELAWTSH PES.GWEEVSGYDEAMNPRTYQVCNVRESSQNN.WLRTGFIW
HEK11 MVFQTRYP SWIILCYIMLLRFAHTGEAQAKEVLLLDSKAQQTELEWISSPPN.GWEEISGLDENYTPRTYQVCQVMEPNQNN.WLRTNWIS

*

*

CONS rg.gaqriyvElkFt.RDCns.Pgvlgt..CKETFNlyyEsDdd....tgrniren.fvKidTiAaDesftq.Dlgdr.mklNtevsvGplskkGfYL
EPH RGEASRVHVELQFTVRDCKSFPGGAGPLGCKKETFNLLYMESDQD...VGIQLRRPLFQKVTTVAADQSFTIRDLASGSVKLNVERCSLGRLTRGLYL
ECK RG.EAERNNFELNFTVRDCNSFPGGASS..CKETFNLYYAESDLD...YGTNFQKRLFTKIDTIAPDEITVSSDFEARHVKLNVEERSVGPLTRKGFYL
HEK4 RN.SAQKIYVELKFTLRDCNSIPLVLGT..CKETFNLYYMESDQD...HGKVFREHQFTKIDTIAADESFTQMDLGDRILKLNTEIREVGPVNKKGFYL
HEK5 RR.GAHRIVHEMKFSVRDCSSIPSVP GS..CKETFNLYYEAADFSA TKTFPNMENPWKVDTIAADESFQVDLGGRVMKINTEVRSFGPVSRSGFYL
HEK7 NE.GASRIFIELKFTLRDCNSLPGGLGT..CKETFNMYEFESDQD...NGRNIKENQYIKIDTIAADESFTQVDLGDRVMKLNTEVRDVGPLSKKGFYL
HEK8 RE.GAQRVYIEIKFTLRDCNSLPGVMGT..CKETFNLYYVESDND...KERFIRENQVKIDTIAADESFTQVDIGDRIMKLNTEIRDVGPLSKKGFYL
HEK2 RR.DVQRVVELKFTVRDCNSIPNIP GS..CKETFNLFYEAADSDVASASSPFWMENPVVKVDTIAPDESFSRLDAGR V...NTKVRSFGLSKAGFYD
HEK11 KG.NAQRI FVELKFTLRDCNSLPGVLGT..CKETFNLYYVETDYD...TGRNIRENLYVKIDTIAADESFTQDGLGERMKMLNTEVREIGPLSKKGFYL



APPROVED	O.G. #13
BY	CLASS
DRAFTSMAN	SUBCLASS

FIG. 5B

* * * * *

CONS AFqdvGaC.aLvsVrv.ykkCpstv.nla.Fpdr.tgadsssLvevrG.Cvna....e...pp.m.CsadgeWlVPiGkC.CkaGyee...gtaCqaCp

EPH AFHNPgACVALSVRVFYQRCPETLNGLAQFPDTLPg.PA.GLVEVAGTCLPHARASPRPGAPRMHCSPDGEWLVPVGRCHCEPGYEEGSGEACVACP

ECK AFQDIGACVALLSVRVYKKCPPELLQGLAHFPETIAGSDAPSLATVAGTCVDHA.VVPPGEEPRMHCAVDGEWLVPiGQCLCQAGYEKVED..ACQACS

HEK4 AFQDVGACVALSVRVYFKKCPFTVKNLAMPDTPV.MDSQSLVEVRGSCVNNS....KEEDPPRMVYCSGTEGEWLVPiGKCSNAGYEER..GFMCQACR

HEK5 AFQDYGGCMSLIAVRVYFKKCPRIIQNGAIFQETLSGAESTSLVAARGSCIANA...EEVDVPIKLYCNGDGEWLVPiGRCMCKAGFEAVENGTVCRGCP

HEK7 AFQDVGACIALSVRVYKKCPVVRHLAVFPDITITGADSSQLLEVSGSCVNHS....VTDEPPKMHCSAEGEWLVPiGKCMCKAGYEER..NGT.CQVCR

HEK8 AFQDVGACIALSVRVYFKKCPPLTVRNLAQFPDITITGADTSSLVEVRGSCVNNS....EEKDVPKMYCGADGEWLVPiGNCLCNAGHEER..SGECQACK

HEK2 AFQDQGACMSLISVRAFVYKKCASTAGFALFPETLTGAETSLVIAPGTCPNA...VEVSVPLKLYCNGDGEWMPVVGACTCATGHEPAAKESQCRPCP

HEK11 AFQDVGACIALSVKVYKKCWSIIENLAIFPDITVTGSEFSSLVEVRGTCVSSA...EEEAENAPRMHCSAEGEWLVPiGKICKAGYQK..GDTCEPCG

* * * * *

CONS pgfyka..gd.pClkCPphs.ttsegatsCtCengy.RadsdppsmaCTrpPSaPrnlisnvnetsv.LewspPadtGgR.Dv.yn.iCkkCg.ga...g

EPH SgsYRMDMDTPHCLTCPQQSTAESGATICTCESGHYRAPGEGPQVACTGPPSAPRNLSPSASGTQLSLRWEPPADTGRQDVRYSVRCSQCQGTADGG

ECK PGFFKFEASESPCLEPEHTLPSPEGATSCCECEGFFRAPQDPASMPCTRPSPAPHYLTAUGMGAKVELRWTPPDQSGGREDIVYSVTCEQCWPES...G

HEK4 PGFYKALDGNMKCAKCPHSSITQEDGSMNRCENNYFRADKDPSPMACTRPPSSPRNVISNINETSVIDWSWPLDTGGRKDVTFNICKKCGWNI...

HEK5 SGTFFKANQGEACTHCPINSRITTSAGATNCVRNGYRADLDPLDMPCTTIPSAQAVISSVNETSMLMELTTPRDSGGREDLVNICKSCGSGR...

HEK7 PGFFKASPHIQSCGKCPHSTHEEASTSCVCEKDYFRRESDPPTMACTRPPSAPRNLISNVNETSFLWIPADTGRKDVSYVIACKKCNSHA...

HEK8 IGYKALSTDATCAKCPHYSVWEGATSCDRCGFFRADNDAAAMPCTRPSPAPLNLISNVNETSVNLEWSSPQNTGGRQDISYNVVKKCGAGD...P

HEK2 PGSYKAKQGEPCPLPCPPNSRITTSAAASICTCHNNFYRADSDSADSACTTVPSPPRGVVISNVNETSILEWSEPRDLGVRDLDLLYNVICKKC.HGAGGA

HEK11 RGFYKSSQDLQCSRCPHSHFSKESRCECEDGYRAPSDPPYVACTRPPSAPQNLIFNINQTTVSLEWSPPADNGGRNDVTYRILCKRCSWEQ...

RECEIVED

FEB 21 2003

1600/2900

APPROVED	BY	CLASS	SUBCLASS



RECEIVED
FEB 21 2003

FIG. 5C

* *

CONS .CepCg.nvry.prglgt.t.vtvsdllahtnYtFe.eAvNGVs.l.....sp.q.asvsv.ittnqaaps.v.tvr.....sr.s.slsW.qep.rpngv
EPH PCQPCGVGHFSPGARALTTTTPAVHNGLEPYANYTFNVEAQNGVSLGSSGHAS..TSVSISMGHAEALS..GLSLRLVKKEPRQLELTWAGSRPRSPGA
ECK ECGPCEASVRYSEPPHGLTRTSVTVSDLEPHMNYTFTVEARNGVSLVTSRFR.TASVS..I..NQ...TEPPKVRLEGRSTTSLSVSW.SIPPPQQR
HEK4 QCEPCSPNVRLPRQFGLTNTTVTVDLLAHTNYTFEIDA VNGVSEL..SSPPRQFAAV..SITTNQAAPSPVLTIKKDRTSRNSISLSW.QEPEHPNGI
HEK5 ACTRCGDNVQYAPRQLGLEPRTIYISDLLAHTQYTFEIQAVNGVTD..QSPFSPQFASV..NITTNQAAPSAVSIMHQVSRVTVDISITLSW.SQPDQPNGV
HEK7 VCEECGGHVRYLPRQSGLKNTSMMVDDL AHTNYTFEIEAVNGVSDL....SPGARQYVSVNVTNQAAPSPVTNVKKGKIAKNSISLSW.QEPDRPNGI
HEK8 KCRPCGSGVHYTPQONGKLTTKV SITDKVITDLLAHTNYTFEIWA VNGVSK....YNPNPDQSVSVTNTNQAAPSSIALVQAKEVTRYSVALLAW.LEPDRPNGV
HEK2 ACSRCDDNVEFVPRQLGLSEPRVHTSHLLAHTRYTFEVQAVNGVSGK....SPLPPRYAAVNITTNQAAPSEVPTLRLHSSSGSSTLSW.APPERPNGV
HEK11 ECVPCGSGNIGYMPQQTGLEDNVYTVMDLLAHANYTFEVEAVNGVSDL....SRSQRLFAAVSITTGQAAPSQVSGVMKERVLRQSVLSW.QEPEHPNGV

CONS il.YEvkyekdq.ersy.iv..k.tsvt.dgLkpdT.YvfqvrarTaaGyG..Sr..efeT.pea.sgsG...ivvviivs.aga..llv..v.l..r
EPH NLTYE....LHVLNQDEERYQMVL EPRVLLTELQPDTTYIVVRMLTPLGPGFSPDHEFRTPPVSRGLTGGEIVAVIFGLLLGAALLGLVFRSRRRA
ECK VWKYEY.TYRKKGDSNSYNVRTEGFSVTLDLAPDTTYLVQVQALTQEGQGAGSKVHEFQTLSPGSGNLA VIGGVAVGVVLLLVLAGVGVFFIHRRRKN
HEK4 ILDYEVKYEKQEQETSYTILRAGTNVTISSLKPDITYVLQIRARTAAGYGTNSRKFETSPDSFSISGESSQVVMIAISA AVAILLTWVIVVLIGR
HEK5 ILDYELQYKEKELSEYNATAIKSPNTTTVQGLKAGAIYVFQVRARTVAGYGRYCKMYFTMTAEYQTSIQEKLPLIIGSSAAGLVFLIAVWVIAIVC
HEK7 ILEYEIKHFEDQETSYTII.KSKETTITAEGCLKPASVVVFQIRARTAAGYGVFSRRFEFETTPVFAASSDQSQIPVIAVSVTVGVILLAWIGVLLSGR
HEK8 ILEYEVKYEKDQERNERSYRIVRTAARNTDIKGLNPLTSYVFHVRARTAAGYGVDFSEPLEVTNTVPSRIIGDGANSTVLLVSVSGSVLWVILIAAFVIS
HEK2 ILDYEMKYFEK..SEGIASVTQSMNSVQLDGLRPDARYVQVRARTVAGYGVQSRPAEFETTSERGSAQQQLQEQPLIVGSATAGLVFWVAVVIAIV
HEK11 ITEYEIKYYEKDQRERTYSTVTKTSTASINNLKPGTVVVFQIRAF TAAGYGNYSPLDVATLEATGKMFEATVSSSEQNPVILIAVXVAGTIIILVFM

TECH CENTER 1600/2900



APPROVED	BY	CLASS	SUBCLASS

FIG. 5D

∞

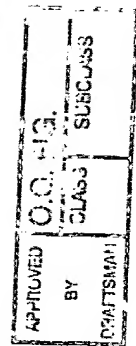
CONS .r..qsr.dd.ey.keq.....klpg.ktyidP.TyedPnqav.efakEidascikiekViGaGEFGEVcsGrLklp.gkre..VAIKTLKvgY
EPH QRQRQRHVTA PPMWIERTSCAEALCGTSRHTRTLHREPWTL..PGGWSNFPSRELDPAWLMVDTVIGEGEFGEVYRGTLRLPS.QDCKTVAIKTLKDTS
ECK QRARQSPEDVYFSKSEQ.....LKPLKTYVDPHTYEDPNQAVLKTTEIHPSCVTRQKVI GAGEFGEVYKGM LKTSSGKKEVPVAIKTLKAGY
HEK4 FCGYKSKHGADKRLHFGNG.....HLKPLGLRTYVDPHTYEDPTQAVHEFAKELDATNISIDKVVGAGEFGEVCSGRLKLP.S.KKEISVAIKTLKVG
HEK5 NRRGFERADSEYTDKLQHYT.....SGHITPGMKIYIDPFTYEDPNEAVREFAKEIDISCVKIEQVIGAGEFGEVCSGHLKLP.GKREIFVAIKTLKSGY
HEK7 RCGYSKAKQDPEEEKMHFN.....GHIKLPGVRTYIDPHTYEDPNQAVHEFAKEIEASCITIERVIGAGEFGEVCSGRLKLP.GKRELPAIKTLKVG
HEK8 RRRSKYSKAKQEADEEKHLN.....QGVRTYVDPFTYEDPNQAVREFAKEIDASCIEKVI GVEFGEVCSGRLKVP.GKREICVAIKTLKAGY
HEK2 CLRKQRHGS DSEYTEKLQY.....IAPGMKVYIDPFTYEDPNEAVREFAKEIDVSCV KIEEVIGAGEFGEVCRGRLKQP.GRREVFVAIKTLKVG
HEK11 VFGFIIGRRHCGYTKADQEGDEELYFHFKPGTKTYIDPETYEDPNRAVHQFAKELDASCIEKIERVIGAGEFGEVCSGRLKLP.GKRDVAVAIKTLKVG

CONS tekQrrdFL.EASIMGQFdHpniihLEGVvtkskPvMIite.MENG.Ld.FLrkn dgqftviQLVgMLrGlaaGMkVlsdmYVHRDLAARNILvNsNLv
EPH PGGQWNNFLREATIMGQFSHPHILHLEGVVTKRKPIMIITEFMENAALDAFLREREDQLVPGQLVAMLQGIASGMNVL SNHNYVHRDLAARNILVNQNL
ECK TEKQRVDFLGEAGIMGQFSHHNIIRLEGVVISKYKPMIITEYMENGALDKFLREKDGESVLQLVGMRLGIAAGMKVLANMNYVHRDLAARNILVNSNLV
HEK4 TEKQRRDFLGEASIMGQFDHPNIIRLEGVVTKSPVMIVTEYMENGSLDSFLRKHDAQFTVIQLVGMRLGIAAGMKVLSDMGYVHRDLAARNILINSNLV
HEK5 TEKQRRDFLSEASIMGQFDHPNVIHLEGVVTKSTPVMITEFMENGSLDSFLRQNDGQFTVIQLVGMRLGIAAGMKVLA DMNYYVHRDLAARNILVNSNLV
HEK7 TEKQRRDFLGEASIMGQFDHPNIIHLEGVVTKSPVMIVTEYMENGSLDTFLKNDGQFTVIQLVGMRLGISAGMKVLSDMGYVHRDLAARNILINSNLV
HEK8 TDKQRRDFLSEASIMGQFDHPNIIHLEGVVTCKPVMITEYMENGSLDAFLRKNDRFTVIQLVGMRLGISGGMKVLSDMSYVHRDLAARNILVNSNLV
HEK2 TERQRRDFLSEASIMGQFDHPNIIIRLEGVVTKSRPVMILTEFMENCALDSFLRLNDGQFTVIQLVGMRLGIAAGMKVLS EMMYVHRDLAARNILVNSNLV
HEK11 TEKQRRDFLCEASIMGQFDHPNVVHLEGVVTGRKPVMIVIEFMENGALHAFLRKHGQFTVIQLVGMRLGIAAGMRVLA DMGYVHRDLAARNILVNSNLV

RECEIVED

FEB 21 2003

TECH CENTER 1600/29



RECEIVED
FEB 21 2003

TECH CENTER 1600/2900

FIG. 5E

*
CONS CKVSDFGLSRVLEDD.pea.yt.trGGKiPiRWTaPEAlayRkFTsASDVWSyGIVmWEVmsyGerPYw.msNqdVikaieegyRLPpPmDCPaal.qLM
EPH CKVSDFGLTRLL.DDFDGTyET..QGGKiPiRWTaPEAlaHRIFTTASDVWSFGIVmWEVLSFGDKPYGEMSNQEVmKSIEDGYRLPPPVDCPAPLYELM
ECK CKVSDFGLSRVLEDD.PEATyT.TSGGKiPiRWTaPEAlaYRKFTsASDVWSFGIVmWEVMTYGERPYWELSNHEVMKAlNDGFRLLPTPMDPCPSAIYQLM
HEK4 CKVSDFGLSRVLEDD.PEAAyT.TRGGKiPiRWTsPEAlayRkFTsASDVWSyGIVLWEVMSYGERPYWEMSNQDVikaVDEGYRLPPPMDCPaALYQLM
HEK5 CKVSDFGLSRFLEDDTSDPTyTSALGGKPiRWTaPEAlQYRKFTsASDVWSyGIVmWEVMSYGERPYWDMTNQDVINAIEQDYRLPPPMDCPSALHQLM
HEK7 CKVSDFGLSRVLEDD.PEAAyT.TRGGKiPiRWTaPEAlaFRKFTsASDVWSyGIVmWEVMSYGERPYWEMTNQDVikaVEEGYRLPSPMDCPaALYQLM
HEK8 CKVSDFGMSRVLEDD.PEAAyT.TRGGKiPiRWTaPEAlayRkFTsASDVWSyGIVmWEVMSYGERPYWDMSNQDVikaIEEGYRLPPPMDCPiALHQLM
HEK2 CKVSDFGLSRFLEDDPSDPTyTSSLGGKPiRWTaPEAlayRkFTsASDVWSyGIVmWEVMSYGERPYWDMSNQDVINAIVEQDYRLPPPMDCPTALHQLM
HEK11 CKVSDFGLSRVLEDD.PEAVyT.TTGGKiPVRWTaPEAlQYRKFTsASDVWSyGIVmWEVMSYGERPYWDMSNQDVikaIEEGYRLPAPMDCPaGLHQLM
*
*
CONS ldcWqk.RnrRpKf.qivniLdklirnpnSLktia.assr.s.plld.sgpD.ttfrtvgeWLeaikmgryke.Ftaagyts..avaqmtaeDl.rigVt
EPH KNCWAYDRARRPHFQKLQAHLEQLLANPHSLRTIANEDPRVTLRLPSLSGSDGIPYRTVSEWLEsIRMKRYILHFHSAGLDTMECVLELTAEDLTQMGIT
ECK MQCWQqERARRPKFADIVSILDKLIRAPDSLKTlADFDPRVSIRLPSTSGSEGVPFRTVSEWLEsIKMQQYTEHFMAAGYTAIEKVvQMTNDDIKRIGVR
HEK4 LDCWQKDRNNRPKFEQIVSILDKLIRNPGSLKIITSAAARPSNLLLDQSNVDISTFRITGDWLNQVTAHCKEIFTGVEYSSCDTIAKISTDDMKKVGVT
HEK5 LDCWQKDRNHRPKFGQIVNTLDKMIRNPNSLKAMAPLSSGINPLLDRTIPDYTSFNTVDENLEAIKMGQYKESFANAGFTSFDVVSQMMEDILRVGVT
HEK7 LDCWQKERNRPKFEQIVNMLDKLIRNPSSLKTLVNASCVRVSNLLAEHSPGSGAYRSVGEWLEAIKMGRYTEIFMENGYSMDAVAQVTLLEDLRLRGVT
HEK8 LDCWQKERSDRPKFGQIVNMLDKLIRNPNSLKRTGTSSRPNTALLDPSSPEFSAVVSGDWLQAIKMDRYKDNFTAGYTTLEAVHVNQEDLARIGIT
HEK2 LDCWVRDRNLRPKFSQIVNTLDKLIrNAASLKVtASAQSGMSQPLLDRTVPDYTTFTTVGDWLDaIKMGRYKESFVSAGFASFDLVAQMTAEDLLRIGVT
HEK11 LDCWQKERAERPKEQIVGILDKMIRNPNSLKTLPLGTCsrPISPLLDQNTPDFTTFCsvGEWlQAIKMERyKDNFTAGYNSLESVARMTIEDVMSLGIT



RECEIVED
FEB 21 2003
TECH CENTER 1600/2000

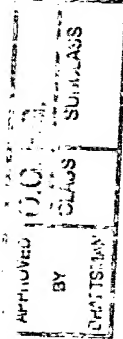


FIG. 5F

CONS	lvghQkklslsq.mr.Qmnggh.p.v.v
EPH	LPGHQKRILCSIQGFKD
ECK	LPGHQKRIAYSLGLKQDVNTVGIP
HEK4	VGPQKKIISIKALETQSKNGPVPV
HEK5	LAGHQKKILNSIQVMRAQMNQIQSVEV
HEK7	LVGHQKKIMNSLQEMKVQLVNGMVPL
HEK8	AITHQNKILSSVQAMRTQMQQMHGRMPV
HEK2	LAGHQKKILSSIQDMRLQMNQTLPVQV
HEK11	LVGHQKKIMSSIQTMTRAQMLHLHGTGIQV



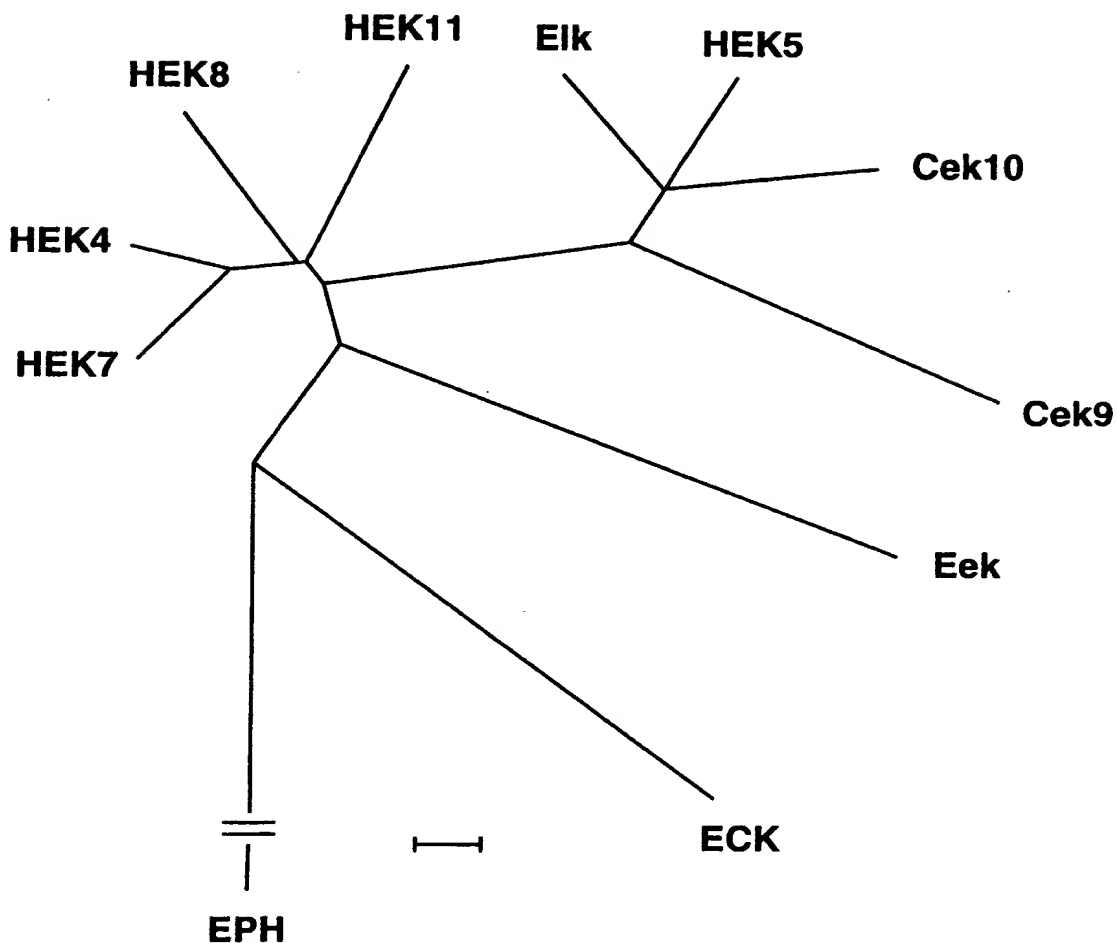
RECEIVED

FEB 21 2003

TECH CENTER 1600/2900

FIG. 6

APPROVED	O.G. FIG.	SUBCLASS
BY	CLASS	
DRAFTSMAN		





RECEIVED

FEB 21 2003

TECH CENTER 1600/2300

FIG. 7A

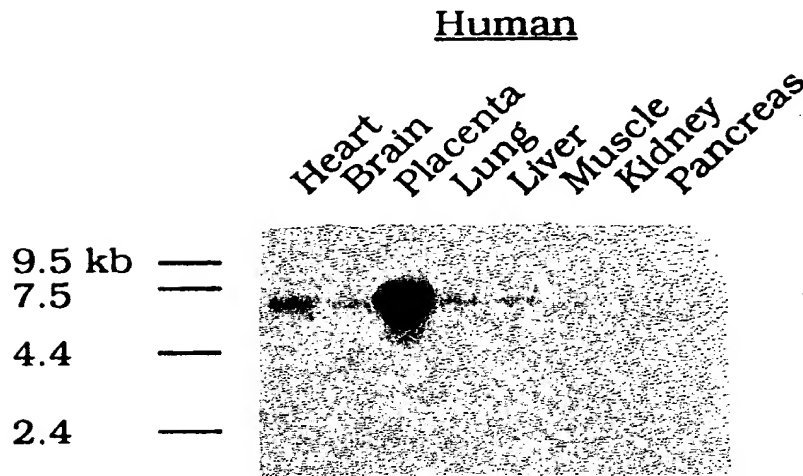
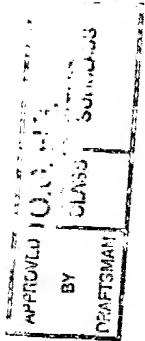


FIG. 7B





RECEIVED

FEB 21 2003

FIG. 8A

TECH CENTER 1600/2900

APPROVED BY DRAFTSMAN	O.G. FIG.	SUBCLASS
	CLASS	

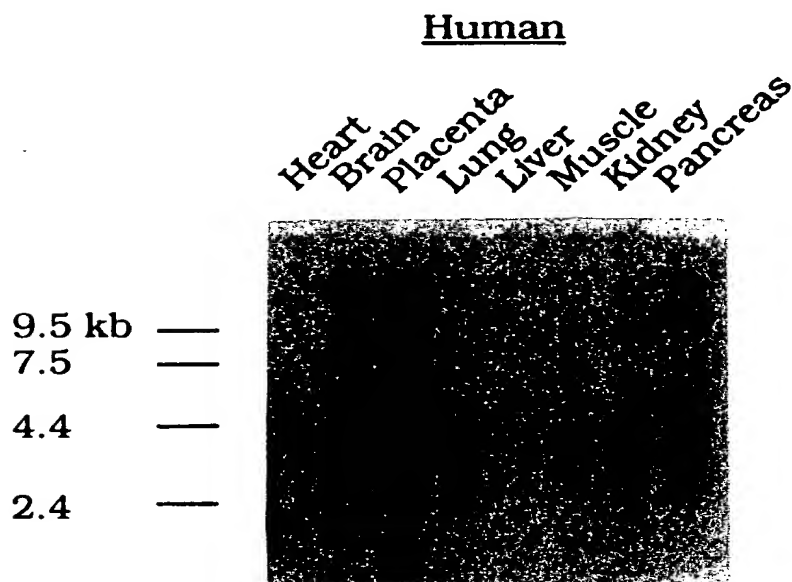
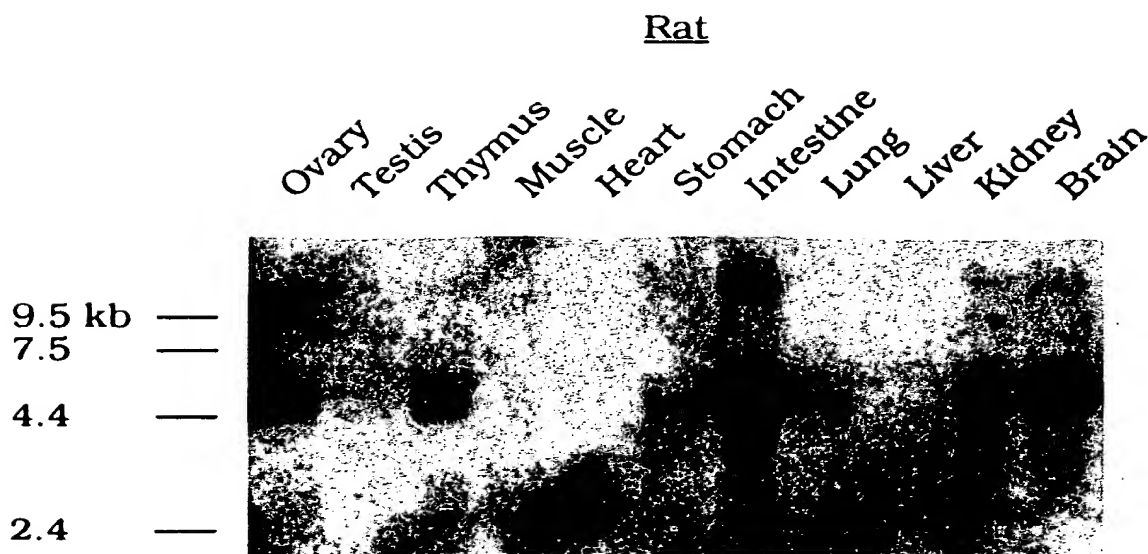


FIG. 8B





RECEIVED

FEB 21 2003

TECH CENTER 1600/2900

FIG. 9A

Human

Heart
Brain
Placenta
Lung
Liver
Muscle
Kidney
Pancreas

9.5 kb —
7.5 —
4.4 —



FIG. 9B

Rat

Ovary
Testis
Thymus
Muscle
Heart
Stomach
Intestine
Lung
Liver
Kidney
Brain

9.5 kb —
7.5 —
4.4 —





RECEIVED

FEB 21 2003

TECH CENTER 1600/2900

FIG. 10A

Human

Heart
Brain
Placenta
Lung
Liver
Muscle
Kidney
Pancreas

9.5 kb —
7.5 —
4.4 —



FIG. 10B

Rat

Ovary
Testis
Thymus
Muscle
Heart
Stomach
Intestine
Lung
Liver
Kidney
Brain

9.5 kb —
7.5 —
4.4 —
2.4 —





RECEIVED

FEB 21 2003

FIG. IIA

TECH CENTER 1600/2900

O.G. FIG.	CLASS	SUBCLASS
	APPROVED BY DRAFTSMAN	

Human

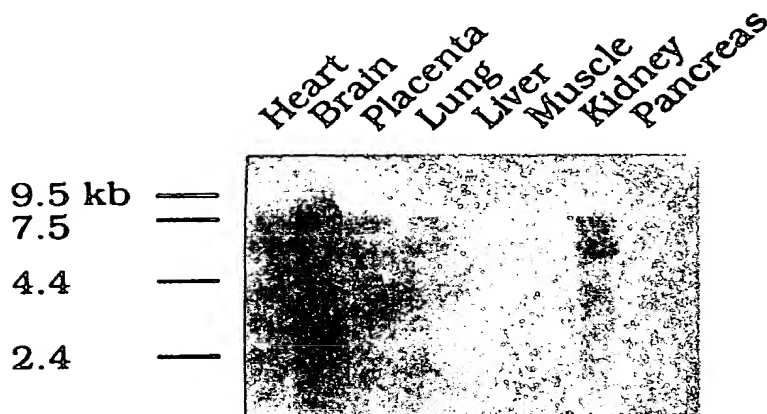


FIG. IIB

Rat

